

31272

Access DB#

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: Michael Willis Examiner #: 78392 Date: 12/14/00
 Art Unit: 1619 Phone Number 305-1679 Serial Number: 09/382708
 Mail Box and Bldg/Room Location: 3819 Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: Cosmetic Composition

Inventors (please provide full names): Son Nguyen Kim, Axel Sanner, Peter Hassel,
Wilma M. Dausch,

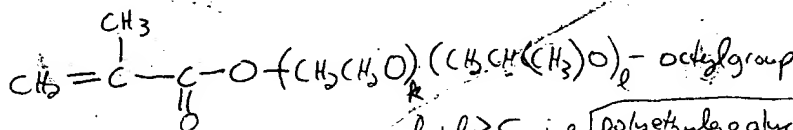
Earliest Priority Filing Date: 8/26/98

For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

Compound claim

↳ novelty is in combination of t-butyl acrylate (or variation of ~~butyl~~) and acrylic acid (or variant) and compound of claim e.

Claim 1e) very broad, but possibilities include



$p+q \geq 5$ i.e. polyethylene glycol
+ polypropylene glycol

Point of Contact:
 John Dantzman
 Technical Info. Specialist
 CM1 1E05 Tel: 308-4488 or

urethane methacrylates containing polyethylene glycol
or
polypropylene glycol
etc.

STAFF USE ONLY

Type of Search

Vendors and cost where applicable

Searcher: JOHN DANTZMAN NA Sequence (#) _____ STN ☒
 Searcher Phone #: _____ AA Sequence (#) _____ Dialog _____
 Searcher Location: _____ Structure (#) 1 Questel/Orbit _____
 Date Searcher Picked Up: 12-27-00 Bibliographic _____ Dr. Link _____
 Date Completed: 12-29-00 Litigation _____ Lexis/Nexis _____
 Searcher Prep & Review Time: 50 Fulltext _____ Sequence Systems _____
 Clerical Prep Time: _____ Patent Family _____ WWW/Internet _____
 Online Time: 51 Other _____ Other (specify) _____

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(FILE 'HOME' ENTERED AT 10:50:59 ON 29 DEC 2000)

FILE 'HCAPLUS' ENTERED AT 10:51:09 ON 29 DEC 2000

L1 16563 S KIM S?/AU
L2 1 S AXEL S?/AU
L3 9 S HOSSEL P?/AU
L4 14 S DAUSCH W?/AU
L5 173 S SANNER A?/AU
L6 0 S L1 AND (L2 OR L5) AND L3 AND L4
L7 3 S L1 AND L5
SELECT RN L7 1-3

FILE 'REGISTRY' ENTERED AT 10:52:50 ON 29 DEC 2000

FILE 'HCAPLUS' ENTERED AT 10:52:54 ON 29 DEC 2000

FILE 'REGISTRY' ENTERED AT 10:53:04 ON 29 DEC 2000
L8 27 S E1-27

FILE 'HCAPLUS' ENTERED AT 10:53:17 ON 29 DEC 2000
L9 3 S L7 AND L8

Inventor Search

=> d bib abs hitstr

L9 ANSWER 1 OF 3 HCAPLUS COPYRIGHT 2000 ACS

AN 2000:351210 HCAPLUS

DN 132:348149

TI Water-soluble or -dispersible graft copolymers based on a poly(vinyl lactam), their preparation and use

IN Kim, Son Nguyen; Sanner, Axel; Hossel, Peter; Schehlmann, Volker

PA BASF Aktiengesellschaft, Germany

SO Eur. Pat. Appl., 15 pp.

CODEN: EPXXDW

DT Patent

LA German

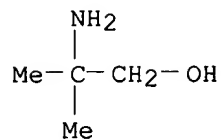
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1002811	A2	20000524	EP 1999-122635	19991113
	EP 1002811	A3	20000719		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	DE 19853046	A1	20000525	DE 1998-19853046	19981118
	JP 2000178323	A2	20000627	JP 1999-327139	19991117
	CN 1257880	A	20000628	CN 1999-127747	19991118
PRAI	DE 1998-19853046		19981118		
AB	The copolymers (K value 30-70), esp. useful in hair-setting prepns., are prepd. by graft polymg. CH ₂ :CR ₁ COXCM ₃ (X = O, NR ₂ ; R ₁ , R ₂ = H, C ₁ -6 alkyl) 50-85, CO ₂ H-contg. vinyl monomer(s) 15-30, and CH ₂ :CR ₁ COXR (R = C ₆ -30 alkyl) 0-25 wt.% onto a polymer (K value 30-50) contg. .gtoreq.30% units derived from .gtoreq.1 N-vinyl lactam with a (5-7)-membered ring to give a polymer with grafted portion/backbone wt. ratio 100:(5-200), which is at least partially neutralized. Thus, 150 g N-vinyl caprolactam was polymd. for 18 h at 80.degree. in EtOH with tert-Bu perpivalate as initiator, and the resulting polymer soln. was mixed with 60.0 g methacrylic acid and 240 g tert-Bu acrylate in addnl. EtOH and polymd. 11 h at 80.degree., then 95% neutralized with 2-amino-2-methyl-1-propanol to give a polymer soln. which could be directly included in an aerosol hair spray formulation.				
IT	269747-34-4P, tert-Butyl acrylate-methacrylic acid-N-vinyl caprolactam graft copolymer 2-amino-2-methyl-1-propanol salt 269747-36-6P 269747-38-8P 269747-40-2P 269747-42-4P 269747-44-6P 269747-46-8P 269747-48-0P RL: BUU (Biological use, unclassified); IMF (Industrial manufacture);				
BIOL	(Biological study); PREP (Preparation); USES (Uses) (prepn. of water-sol. or -dispersible graft copolymers based on a poly(vinyl lactam) for use in hair prepns.)				
RN	269747-34-4 HCAPLUS				
CN	2-Propenoic acid, 2-methyl-, polymer with 1,1-dimethylethyl 2-propenoate and 1-ethenylhexahydro-2H-azepin-2-one, graft, compd. with 2-amino-2-methyl-1-propanol (9CI) (CA INDEX NAME)				

CM 1

CRN 124-68-5

CMF C4 H11 N O



CM 2

CRN 269747-33-3

CMF (C8 H13 N O . C7 H12 O2 . C4 H6 O2)x

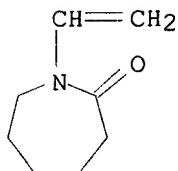
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CDES 8:PM,GRAFT

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CRN 2235-00-9

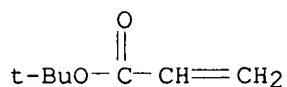
CMF C8 H13 N O



CM 4

CRN 1663-39-4

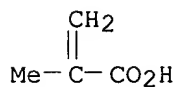
CMF C7 H12 O2



CM 5

CRN 79-41-4

CMF C4 H6 O2



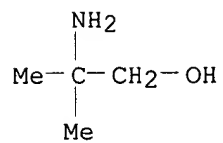
RN 269747-36-6 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with 1,1-dimethylethyl 2-propenoate, 1-ethenylhexahydro-2H-azepin-2-one and 1-ethenyl-2-pyrrolidinone, graft, compd. with 2-amino-2-methyl-1-propanol (9CI) (CA INDEX NAME)

CM 1

CRN 124-68-5

CMF C4 H11 N O



CM 2

CRN 269747-35-5

CMF (C8 H13 N O . C7 H12 O2 . C6 H9 N O . C4 H6 O2) x

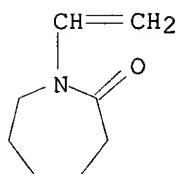
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CDES 8:PM,GRAFT

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CRN 2235-00-9

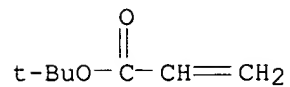
CMF C8 H13 N O



CM 4

CRN 1663-39-4

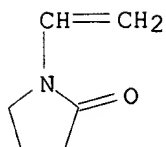
CMF C7 H12 O2



CM 5

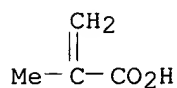
CRN 88-12-0

CMF C6 H9 N O



CM 6

CRN 79-41-4
CMF C4 H6 O2

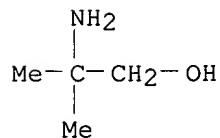


RN 269747-38-8 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with N-[3-(dimethylamino)propyl]-2-methyl-2-propenamide, 1,1-dimethylethyl 2-propenoate, 1-ethenylhexahydro-2H-azepin-2-one and 1-ethenyl-2-pyrrolidinone, graft, compd. with 2-amino-2-methyl-1-propanol (9CI) (CA INDEX NAME)

CM 1

CRN 124-68-5
CMF C4 H11 N O

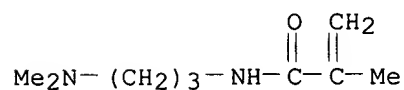


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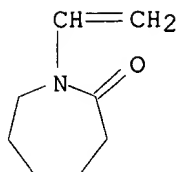
CRN 269747-37-7
CMF (C9 H18 N2 O . C8 H13 N O . C7 H12 O2 . C6 H9 N O . C4 H6 O2)x
CCI PMS
CDES 8:PM,GRAFT

CM 3

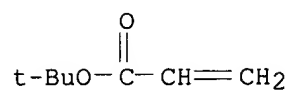
CRN 5205-93-6
CMF C9 H18 N2 O



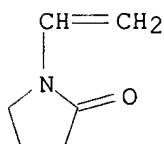
CM 4

CRN 2235-00-9
CMF C8 H13 N O

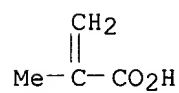
CM 5

CRN 1663-39-4
CMF C7 H12 O2

CM 6

CRN 88-12-0
CMF C6 H9 N O

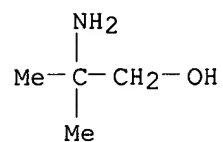
CM 7

CRN 79-41-4
CMF C4 H6 O2

RN 269747-40-2 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, polymer with 1,1-dimethylethyl 2-propenoate and 1-ethenyl-2-pyrrolidinone, graft, compd. with 2-amino-2-methyl-1-propanol (9CI) (CA INDEX NAME)

CM 1

CRN 124-68-5
CMF C4 H11 N O

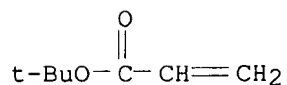


CM 2

CRN 269747-39-9
CMF (C7 H12 O2 . C6 H9 N O . C4 H6 O2) x
CCI PMS
CDES 8:PM,GRAFT

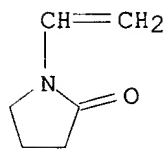
CM 3

CRN 1663-39-4
CMF C7 H12 O2



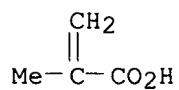
CM 4

CRN 88-12-0
CMF C6 H9 N O



CM 5

CRN 79-41-4
CMF C4 H6 O2



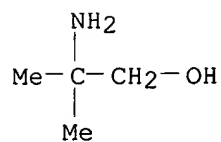
RN 269747-42-4 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, polymer with 1,1-dimethylethyl 2-propenoate,
1-ethenylhexahydro-2H-azepin-2-one and octadecyl 2-methyl-2-propenoate,

graft, compd. with 2-amino-2-methyl-1-propanol (9CI) (CA INDEX NAME)

CM 1

CRN 124-68-5

CMF C4 H11 N O



CM 2

CRN 269747-41-3

CMF (C22 H42 O2 . C8 H13 N O . C7 H12 O2 . C4 H6 O2)x

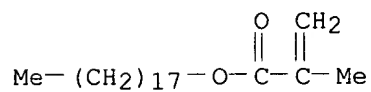
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CDES 8:PM,GRAFT

CM 3

CRN 32360-05-7

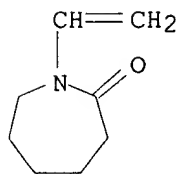
CMF C22 H42 O2



CM 4

CRN 2235-00-9

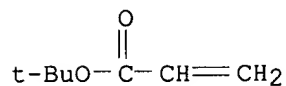
CMF C8 H13 N O



CM 5

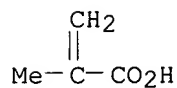
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CMF C7 H12 O2



CM 6

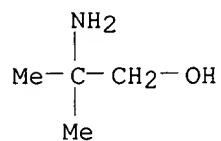
CRN 79-41-4
CMF C4 H6 O2



RN 269747-44-6 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, polymer with 1,1-dimethylethyl 2-propenoate, 1-ethenylhexahydro-2H-azepin-2-one, 1-ethenyl-2-pyrrolidinone and octadecyl 2-methyl-2-propenoate, graft, compd. with 2-amino-2-methyl-1-propanol (9CI) (CA INDEX NAME)

CM 1

CRN 124-68-5
CMF C4 H11 N O

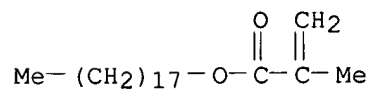


CM 2

CRN 269747-43-5
CMF (C22 H42 O2 . C8 H13 N O . C7 H12 O2 . C6 H9 N O . C4 H6 O2)x
CCI PMS
CDES 8:PM,GRAFT

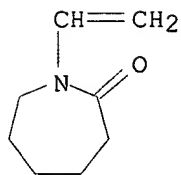
CM 3

CRN 32360-05-7
CMF C22 H42 O2



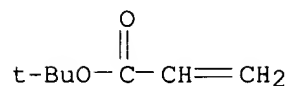
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CRN 2235-00-9
CMF C8 H13 N O



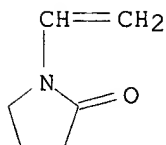
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CRN 1663-39-4
CMF C7 H12 O2



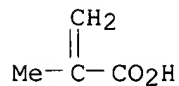
CM 6

CRN 88-12-0
CMF C6 H9 N O



CM 7

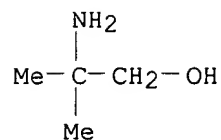
CRN 79-41-4
CMF C4 H6 O2



RN 269747-46-8 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, polymer with N-[3-(dimethylamino)propyl]-2-methyl-2-propenamide, 1,1-dimethylethyl 2-propenoate, 1-ethenylhexahydro-2H-azepin-2-one, 1-ethenyl-2-pyrrolidinone and octadecyl 2-methyl-2-propenoate, graft, compd. with 2-amino-2-methyl-1-propanol (9CI) (CA INDEX NAME)

CM 1

CRN 124-68-5
CMF C4 H11 N O

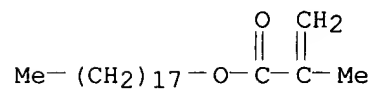


CM 2

CRN 269747-45-7
CMF (C22 H42 O2 . C9 H18 N2 O . C8 H13 N O . C7 H12 O2 . C6 H9 N O . C4 H6 O2)x
CCI PMS
CDES 8:PM,GRAFT

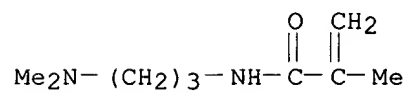
CM 3

CRN 32360-05-7
CMF C22 H42 O2



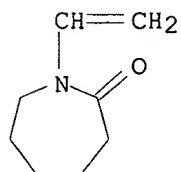
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CRN 5205-93-6
CMF C9 H18 N2 O



CM 5

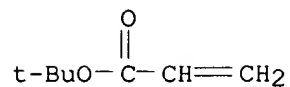
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CMF C8 H13 N O



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CRN 1663-39-4

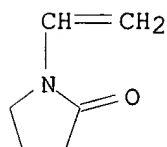
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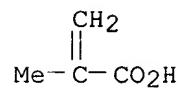
CMF C6 H9 N O



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CRN 79-41-4

CMF C4 H6 O2



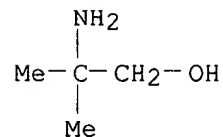
RN 269747-48-0 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with 1,1-dimethylethyl 2-propenoate, 1-ethenyl-2-pyrrolidinone and octadecyl 2-methyl-2-propenoate, graft, compd. with 2-amino-2-methyl-1-propanol (9CI) (CA INDEX NAME)

CM 1

CRN 124-68-5

CMF C4 H11 N O



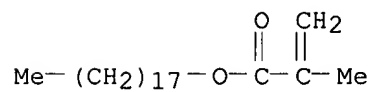
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CRN 269747-47-9

CMF (C22 H42 O2 . C7 H12 O2 . C6 H9 N O . C4 H6 O2)x
CCI PMS
CDES 8:PM,GRAFT

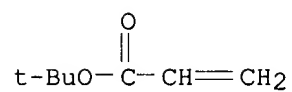
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CRN 32360-05-7
CMF C22 H42 O2



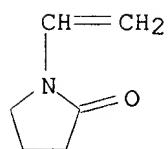
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CRN 1663-39-4
CMF C7 H12 O2



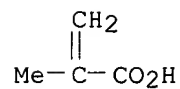
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CRN 88-12-0
CMF C6 H9 N O



CM 6

CRN 79-41-4
CMF C4 H6 O2



=> d bib abs hitstr 2-3

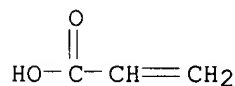
L9 ANSWER 2 OF 3 HCAPLUS COPYRIGHT 2000 ACS
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 DN 132:185241
 TI Hair fixative
 IN Kim, Son Nguyen; Sanner, Axel; Hoessel, Peter; Dausch,
 Wilma M.
 PA BASF A.-G., Germany
 SO Ger. Offen., 20 pp.
 CODEN: GWXXBX
 DT Patent
 LA German
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 19838851	A1	20000302	DE 1998-19838851	19980826
	JP 2000072613	A2	20000307	JP 1999-238609	19990825
	EP 992235	A1	20000412	EP 1999-116625	19990825
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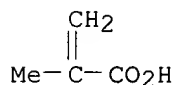
AB Hair fixatives which show no flaking effect and are compatible with
 propellant gases are provided which contain film-forming polymers based
 on
 a combination of (a) .gtoreq.1 .alpha.,.beta.-ethylenically unsatd.
 monomer H₂C:CR₁C(O)X₁CMe₂ (R₁ = H, C₁-8 alkyl; X₁ = O, NR₂; R₂ = H, C₁-8
 alkyl, C₅-8 cycloalkyl), (b) .gtoreq.1 .alpha.,.beta.-ethylenically
 unsatd. mono- or dicarboxylic acid, (c) .gtoreq.1 compd. contg. .gtoreq.1
 .alpha.,.beta.-ethylenically unsatd. double bond and .gtoreq.5 alkylene
 oxide units, and (d) .gtoreq.1 compd. with .gtoreq.1 .alpha.,.beta.-
 ethylenically unsatd. double bond and .gtoreq.1 straight- or
 branched-chain C₈-30 alkyl or alkylene group, or their salts. The
 features of monomers (c) and (d) may be combined in a single monomer mol.
 These polymers are also useful as coatings or binders for
 pharmaceuticals,
 as well as in coatings for the textile, paper, printing, leather, and
 adhesive industries. Thus, 1 mol Lutensol AT 25 (ethoxylated C₁₆-18
 fatty
 alc.) dissolved in 100 g acetone at 60.degree. was mixed with 1 mol
 isophorone diisocyanate under reflux, followed by 3 mol neopentyl glycol
 and 4 mol hexamethylene diisocyanate. After reaction of the isocyanates
 was complete, the mixt. was cooled to 30.degree. and 1 mol Tegomer A-Si
 2122 (polysiloxanediamine) was added as an 80% soln. in acetone, followed
 by 1 mol tert-butylaminoethyl methacrylate at .ltoreq.40.degree. to
 produce a polyurethane-polymethacrylate.

IT 79-10-7D, Acrylic acid, esters, polymers 79-41-4D,
 Methacrylic acid, polymers with amino-terminated polysiloxanes and
 tert-Bu
 acrylate and tert-butylaminoethyl methacrylate and diisocyanates and
 ethoxylated C₁₆-18 alcs. and neopentyl glycol and PEG methacrylate and
 stearyl methacrylate 126-30-7D, Neopentyl glycol, polymers with
 amino-terminated polysiloxanes and tert-butylaminoethyl methacrylate and
 ethoxylated C₁₆-18 alcs. and hexamethylene diisocyanate and isophorone
 diisocyanate 822-06-0D, Hexamethylene diisocyanate, polymers
 with amino-terminated polysiloxanes and tert-butylaminoethyl methacrylate
 and ethoxylated C₁₆-18 alcs. and isophorone diisocyanate and neopentyl
 glycol 1663-39-4D, tert-Butyl acrylate, polymers with
 amino-terminated polysiloxanes and tert-butylaminoethyl methacrylate and
 diisocyanates and ethoxylated C₁₆-18 alcs. and methacrylic acid and

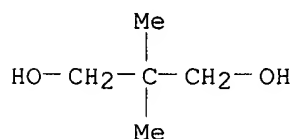
neopentyl glycol and PEG methacrylate and stearyl methacrylate
3775-90-4D, tert-Butylaminoethyl methacrylate, polymers with
 amino-terminated polysiloxanes and ethoxylated C16-18 alcs. and
 hexamethylene diisocyanate and isophorone diisocyanate and neopentyl
 glycol **4098-71-9D**, Isophorone diisocyanate, polymers with
 amino-terminated polysiloxanes and tert-butylaminoethyl methacrylate and
 ethoxylated C16-18 alcs. and hexamethylene diisocyanate and neopentyl
 glycol **32360-05-7D**, Stearyl methacrylate, polymers with
 amino-terminated polysiloxanes and tert-Bu acrylate and
 tert-butylaminoethyl methacrylate and diisocyanates and ethoxylated
 C16-18
 alcs. and methacrylic acid and stearyl methacrylate **259274-26-5**
259274-27-6
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
 (Uses)
 (hair fixative)
 RN 79-10-7 HCAPLUS
 CN 2-Propenoic acid (9CI) (CA INDEX NAME)



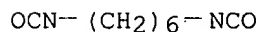
RN 79-41-4 HCAPLUS
 CN 2-Propenoic acid, 2-methyl- (9CI) (CA INDEX NAME)



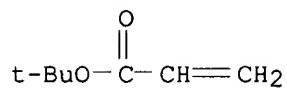
RN 126-30-7 HCAPLUS
 CN 1,3-Propanediol, 2,2-dimethyl- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)



RN 822-06-0 HCAPLUS
 CN Hexane, 1,6-diisocyanato- (9CI) (CA INDEX NAME)



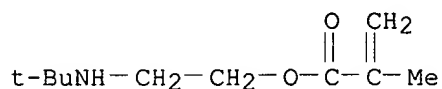
RN 1663-39-4 HCAPLUS
 CN 2-Propenoic acid, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



RN 3775-90-4 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-[(1,1-dimethylethyl)amino]ethyl ester (9CI)

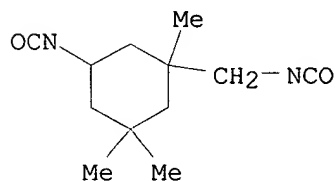
(CA INDEX NAME)



RN 4098-71-9 HCAPLUS

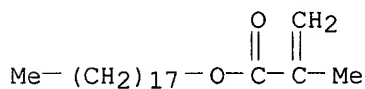
CN Cyclohexane, 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethyl- (9CI)

(CA INDEX NAME)



RN 32360-05-7 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, octadecyl ester (9CI) (CA INDEX NAME)



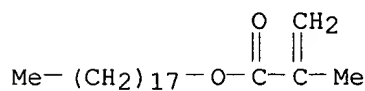
RN 259274-26-5 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with 1,1-dimethylethyl 2-propenoate, .alpha.-(2-methyl-1-oxo-2-propenyl)-.omega.-[(2-methyl-1-oxo-2-propenyl)oxy]poly(oxy-1,2-ethanediyl) and octadecyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 32360-05-7

CMF C22 H42 O2

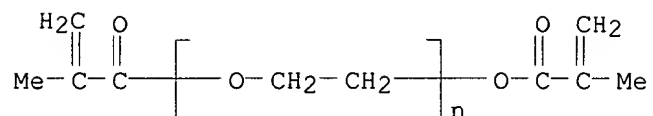


CM 2

CRN 25852-47-5

CMF (C2 H4 O)n C8 H10 O3

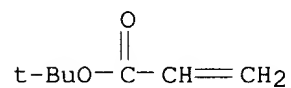
CCI PMS



CM 3

CRN 1663-39-4

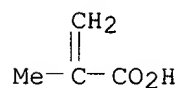
CMF C7 H12 O2



CM 4

CRN 79-41-4

CMF C4 H6 O2



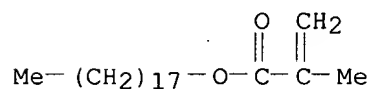
RN 259274-27-6 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, octadecyl ester, polymer with
 1,1-dimethylethyl 2-propenoate, .alpha.-(2-methyl-1-oxo-2-propenyl)-
 .omega.-[(2-methyl-1-oxo-2-propenyl)oxy]poly(oxy-1,2-ethanediyl) and
 2-propenoic acid (9CI) (CA INDEX NAME)

CM 1

CRN 32360-05-7

CMF C22 H42 O2

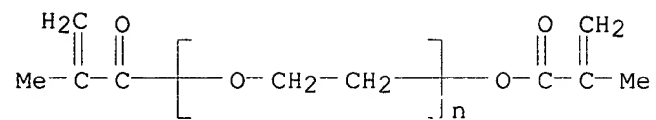


CM 2

CRN 25852-47-5

CMF (C2 H4 O)n C8 H10 O3

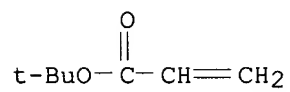
CCI PMS



CM 3

CRN 1663-39-4

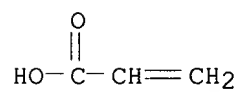
CMF C7 H12 O2



CM 4

CRN 79-10-7

CMF C3 H4 O2



L9 ANSWER 3 OF 3 HCAPLUS COPYRIGHT 2000 ACS
 AN 1996:676083 HCAPLUS
 DN 125:308661
 TI Use of carboxylate-containing film-forming polycondensates in hair sprays
 IN Kim, Son Nguyen; Sanner, Axel; Hoessel, Peter
 PA BASF A.-G., Germany
 SO Eur. Pat. Appl., 6 pp.
 CODEN: EPXXDW
 DT Patent
 LA German
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 734714	A2	19961002	EP 1996-104378	19960320
	EP 734714	A3	19980415		
	R: AT, BE, CH, DE, DK, ES, FR, GB, IT, LI, NL, PT, SE				
	DE 19510684	A1	19961002	DE 1995-19510684	19950327
	CA 2172670	AA	19960928	CA 1996-2172670	19960326
	JP 08268847	A2	19961015	JP 1996-72519	19960327

PRAI DE 1995-19510684 19950327

AB Film-forming polymers for use in hair spray compns. with a high water content are prepd. by condensation of (A) 2,2-dimethylolpropanoic acid, benzene-1,3,5-tricarboxylic acid, or their C1-8 alkyl esters or acid chlorides, or 5-hydroxyisophthalic acid or its acyl derivs., with (B) a mixt. of (1) a satd. diol and/or C2-8 diamine and (2) a hydroxy monocarboxylic acid, dicarboxylic acid, lactone, or amino acid in an A:B ratio of (0.3-15):(99.7-85). The polycondensates have a glass transition temp. >20.degree. and an acid no. of 30-160. Thus, a condensate was prepd. by heating a mixt. of benzene-1,3,5-tricarboxylic acid 0.6, 2,2-dimethylolpropanoic acid 0.4, isophthalic acid 8.4, adipic acid 0.2, neopentyl glycol 5, diethylene glycol 5, lactic acid 3, and .epsilonpsilon.-caprolactone 1 mol at 160-180.degree. for 3 h under N2 in the presence of 50 ppm tetraisopropyl orthosilicate, then raising the temp.

of the melt to 220-240.degree. over the next 17 h, and finally heating at 20 mbar to remove remaining water. A pump hair spray was prepd. contg. this polymer 4.00, 2-amino-2-methylpropanol 0.57, perfume oil and surfactant

as needed, distd. H2O 40.43, and EtOH 55.00 wt.%.

IT 183139-52-8 183139-53-9 183139-54-0
 183139-55-1 183139-56-2 183139-58-4
 183139-59-5 183139-60-8 183140-20-7

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(use of carboxylate-contg. film-forming polycondensates in hair sprays)

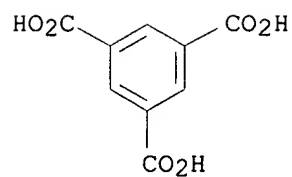
RN 183139-52-8 HCAPLUS

CN 1,3,5-Benzenetricarboxylic acid, polymer with
 2,2-dimethyl-1,3-propanediol
 and 2-hydroxypropanoic acid (9CI) (CA INDEX NAME)

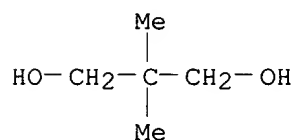
CM 1

CRN 554-95-0

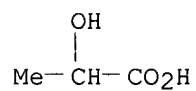
CMF C9 H6 O6



CM 2

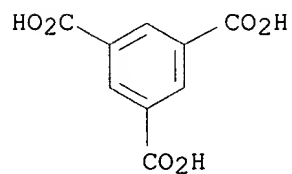
CRN 126-30-7
CMF C5 H12 O2

CM 3

CRN 50-21-5
CMF C3 H6 O3

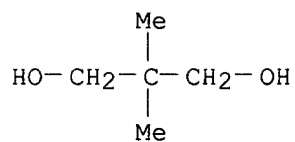
RN 183139-53-9 HCAPLUS
CN 1,3,5-Benzenetricarboxylic acid, polymer with 1,3-benzenedicarboxylic acid, 2,2-dimethyl-1,3-propanediol and 2,2'-oxybis[ethanol] (9CI) (CA INDEX NAME)

CM 1

CRN 554-95-0
CMF C9 H6 O6

CM 2

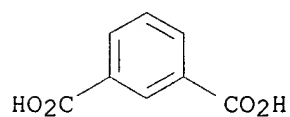
CRN 126-30-7
CMF C5 H12 O2



CM 3

CRN 121-91-5

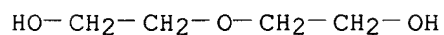
CMF C8 H6 O4



CM 4

CRN 111-46-6

CMF C4 H10 O3



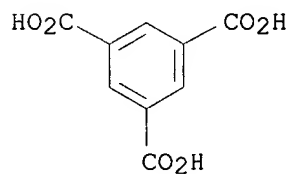
RN 183139-54-0 HCAPLUS

CN 1,3,5-Benzenetricarboxylic acid, polymer with 1,3-benzenedicarboxylic acid, 2,2-dimethyl-1,3-propanediol, 2-hydroxypropanoic acid and 2,2'-oxybis[ethanol] (9CI) (CA INDEX NAME)

CM 1

CRN 554-95-0

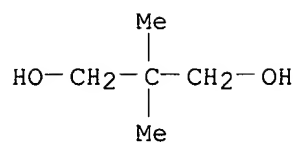
CMF C9 H6 O6



CM 2

CRN 126-30-7

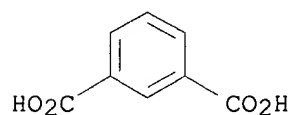
CMF C5 H12 O2



CM 3

CRN 121-91-5

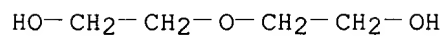
CMF C8 H6 O4



CM 4

CRN 111-46-6

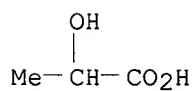
CMF C4 H10 O3



CM 5

CRN 50-21-5

CMF C3 H6 O3



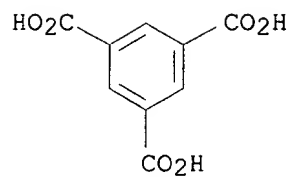
RN 183139-55-1 HCAPLUS

CN 1,3,5-Benzenetricarboxylic acid, polymer with 1,3-benzenedicarboxylic acid, 2,2-dimethyl-1,3-propanediol, 2-oxepanone and 2,2'-oxybis[ethanol] (9CI) (CA INDEX NAME)

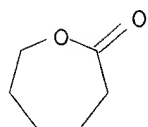
CM 1

CRN 554-95-0

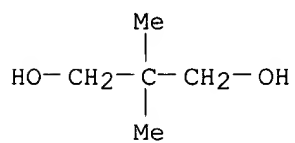
CMF C9 H6 O6



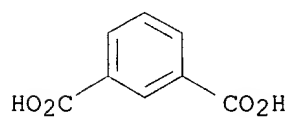
CM 2

CRN 502-44-3
CMF C6 H10 O2

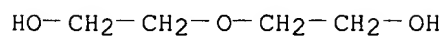
CM 3

CRN 126-30-7
CMF C5 H12 O2

CM 4

CRN 121-91-5
CMF C8 H6 O4

CM 5

CRN 111-46-6
CMF C4 H10 O3

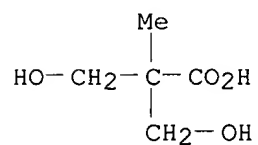
RN 183139-56-2 HCAPLUS

CN 1,3,5-Benzenetricarboxylic acid, polymer with 1,3-benzenedicarboxylic acid, 2,2-dimethyl-1,3-propanediol, hexanedioic acid, 3-hydroxy-2-(hydroxymethyl)-2-methylpropanoic acid, 2-hydroxypropanoic acid, 2-oxepanone and 2,2'-oxybis[ethanol] (9CI) (CA INDEX NAME)

CM 1

CRN 4767-03-7

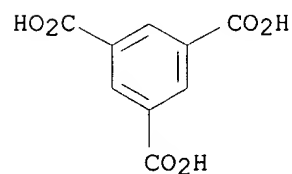
CMF C5 H10 O4



CM 2

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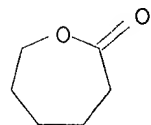
CMF C9 H6 O6



CM 3

CRN 502-44-3

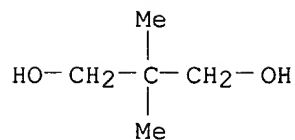
CMF C6 H10 O2



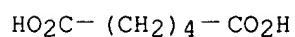
CM 4

CRN 126-30-7

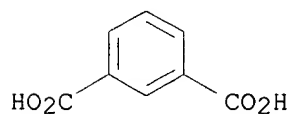
CMF C5 H12 O2



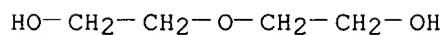
CM 5

CRN 124-04-9
CMF C6 H10 O4

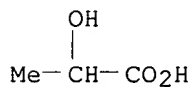
CM 6

CRN 121-91-5
CMF C8 H6 O4

CM 7

CRN 111-46-6
CMF C4 H10 O3

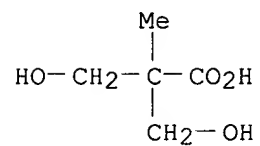
CM 8

CRN 50-21-5
CMF C3 H6 O3

RN 183139-58-4 HCAPLUS
CN 1,3-Benzenedicarboxylic acid, polymer with 2,2-dimethyl-1,3-propanediol, 3-hydroxy-2-(hydroxymethyl)-2-methylpropanoic acid, 2-hydroxypropanoic acid and 2,2'-oxybis[ethanol] (9CI) (CA INDEX NAME)

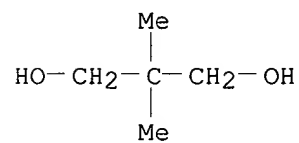
CM 1

CRN 4767-03-7
CMF C5 H10 O4



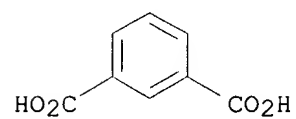
CM 2

CRN 126-30-7
CMF C5 H12 O2



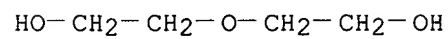
CM 3

CRN 121-91-5
CMF C8 H6 O4



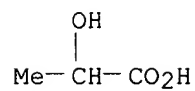
CM 4

CRN 111-46-6
CMF C4 H10 O3



CM 5

CRN 50-21-5
CMF C3 H6 O3



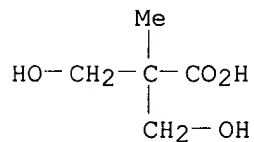
RN 183139-59-5 HCAPLUS

CN 1,3-Benzenedicarboxylic acid, polymer with 1,4-cyclohexanedimethanol, 2,2-dimethyl-1,3-propanediol, 3-hydroxy-2-(hydroxymethyl)-2-methylpropanoic acid and 2,2'-oxybis[ethanol] (9CI) (CA INDEX NAME)

CM 1

CRN 4767-03-7

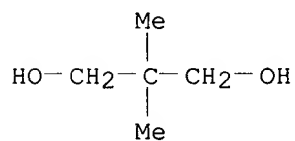
CMF C5 H10 O4



CM 2

CRN 126-30-7

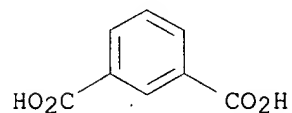
CMF C5 H12 O2



CM 3

CRN 121-91-5

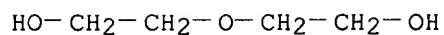
CMF C8 H6 O4



CM 4

CRN 111-46-6

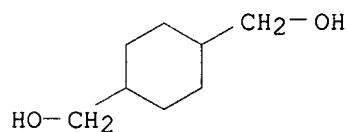
CMF C4 H10 O3



CM 5

CRN 105-08-8

CMF C8 H16 O2



RN 183139-60-8 HCAPLUS

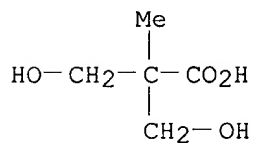
CN 1,3-Benzenedicarboxylic acid, polymer with 1,4-cyclohexanedimethanol, 2,2-dimethyl-1,3-propanediol, hexanedioic acid, 3-hydroxy-2-(hydroxymethyl)-2-methylpropanoic acid and 2,2'-oxybis[ethanol] (9CI)

(CA
INDEX NAME)

CM 1

CRN 4767-03-7

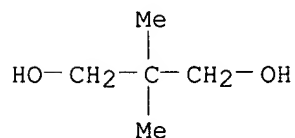
CMF C5 H10 O4



CM 2

CRN 126-30-7

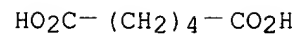
CMF C5 H12 O2



CM 3

CRN 124-04-9

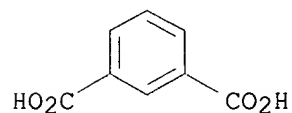
CMF C6 H10 O4



CM 4

CRN 121-91-5

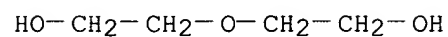
CMF C8 H6 O4



CM 5

CRN 111-46-6

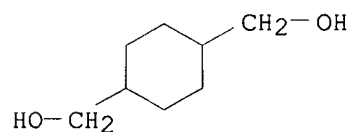
CMF C4 H10 O3



CM 6

CRN 105-08-8

CMF C8 H16 O2



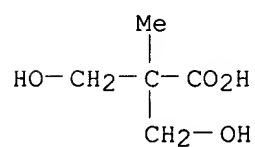
RN 183140-20-7 HCAPLUS

CN 1,3-Benzenedicarboxylic acid, polymer with 1,4-cyclohexanedimethanol, 2,2-dimethyl-1,3-propanediol, hexanedioic acid, 3-hydroxy-2-(hydroxymethyl)-2-methylpropanoic acid and 1,2-propanediol (9CI) (CA INDEX NAME)

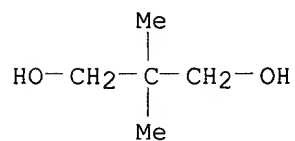
CM 1

CRN 4767-03-7

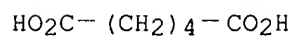
CMF C5 H10 O4



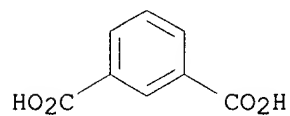
CM 2

CRN 126-30-7
CMF C5 H12 O2

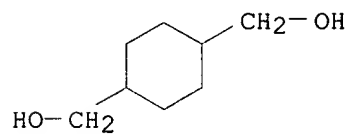
CM 3

CRN 124-04-9
CMF C6 H10 O4

CM 4

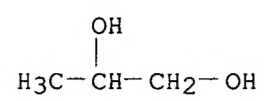
CRN 121-91-5
CMF C8 H6 O4

CM 5

CRN 105-08-8
CMF C8 H16 O2

CM 6

CRN 57-55-6
CMF C3 H8 O2



WILLIS

09/382708

Page 34

=> d his

(FILE 'HOME' ENTERED AT 10:50:59 ON 29 DEC 2000)

FILE 'HCAPLUS' ENTERED AT 10:51:09 ON 29 DEC 2000

L1 16563 S KIM S?/AU
L2 1 S AXEL S?/AU
L3 9 S HOSSEL P?/AU
L4 14 S DAUSCH W?/AU
L5 173 S SANNER A?/AU
L6 0 S L1 AND (L2 OR L5) AND L3 AND L4
L7 3 S L1 AND L5
SELECT RN L7 1-3

FILE 'REGISTRY' ENTERED AT 10:52:50 ON 29 DEC 2000

FILE 'HCAPLUS' ENTERED AT 10:52:54 ON 29 DEC 2000

FILE 'REGISTRY' ENTERED AT 10:53:04 ON 29 DEC 2000
L8 27 S E1-27

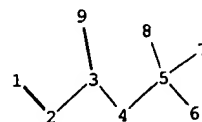
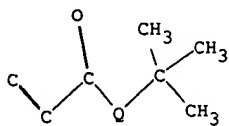
FILE 'HCAPLUS' ENTERED AT 10:53:17 ON 29 DEC 2000
L9 3 S L7 AND L8

FILE 'REGISTRY' ENTERED AT 11:18:50 ON 29 DEC 2000
L10 STRUCTURE UPLOADED
L11 38 S L10
L12 SCR 2043
L13 50 S L10 AND L12
E POLYETHER/PCT
L14 200191 S POLYETHER?/PCT
L15 5 S L13 AND L14
L16 STRUCTURE UPLOADED
L17 50 S L10 AND L16 AND L12
L18 5 S L14 AND L17
L19 STRUCTURE UPLOADED
L20 17 S L10 AND L19 AND L12
L21 2 S L20 AND L14
L22 839 S L10 AND L19 AND L12 FUL
L23 83 S L14 AND L22

FILE 'CAPLUS' ENTERED AT 11:34:55 ON 29 DEC 2000
L24 46 S L23

FILE 'CAOLD' ENTERED AT 11:40:56 ON 29 DEC 2000
L25 0 S L23

STN Structure : wil382.str



chain nodes :

1 2 3 4 5 6 7 8 9

chain bonds :

1-2 2-3 3-4 3-9 4-5 5-6 5-7 5-8

exact/norm bonds :

3-4 3-9 4-5

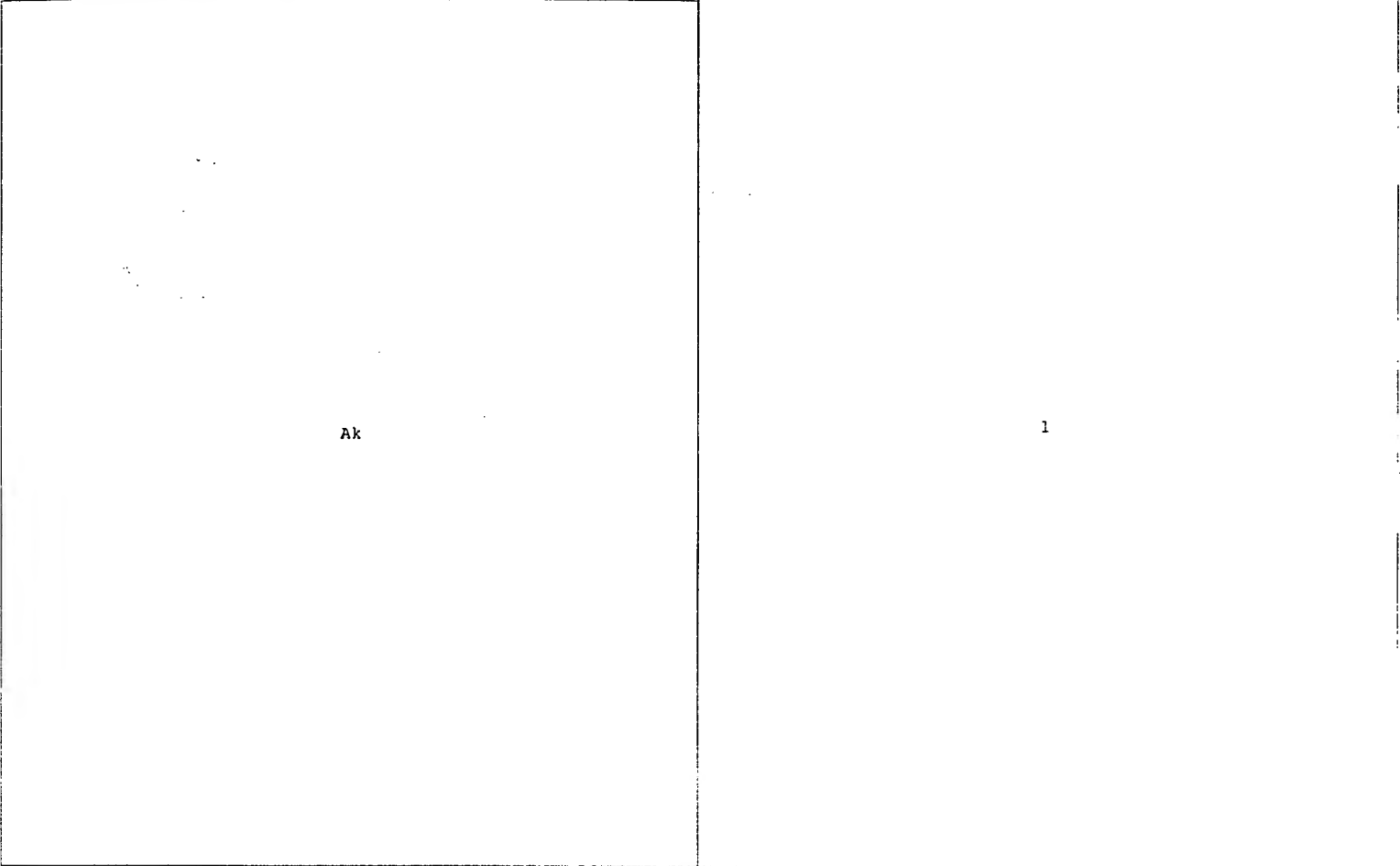
exact bonds :

1-2 2-3 5-6 5-7 5-8

Match level :

1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS
9:CLASS

STN Structure : wil38b.str



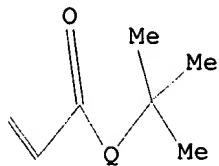
chain nodes :
1

Match level :
1:CLASS
Element Count :
Node 1: Limited
C,C8

=> d que 123

L10

STR



Structure attributes must be viewed using STN Express query preparation.

L12 SCR 2043

L14 200191 SEA FILE=REGISTRY ABB=ON PLU=ON POLYETHER?/PCT

L19 STR

Ak

Structure attributes must be viewed using STN Express query preparation.

L22 839 SEA FILE=REGISTRY SSS FUL L10 AND L19 AND L12

L23 83 SEA FILE=REGISTRY ABB=ON PLU=ON L14 AND L22

L24 ANSWER 1 OF 46 CAPLUS COPYRIGHT 2000 ACS

AN 2000:745558 CAPLUS

DN 133:310294

TI Thermally reversible hydrophilic-hydrophobic copolymers and production method thereof

IN Ito, Shoji

PA Agency for Industrial Science and Technology, Japan

SO Jpn. Tokkyo Koho, 10 pp.

CODEN: JTXXFF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	---	-----	-----	-----
PI	JP 3101714	B1	20001023	JP 1999-130577	19990511
	JP 2000319304	A2	20001121		

AB Title copolymers comprise (A) structure units derived from at least one monomer selected from N-n-propylacrylamide, N-isopropylamide, and N,N-diethylacrylamide and (B) 0.001-10 mol% structure units derived from reactive surfactants represented by

R-p-C₆H₄-OCH₂CH(CH₂OCH₂CH:CH₂)(OX)_nOSO₃M, CH₂:CHCH₂OOCCH(CH₂COOR)SO₃M, or CH₂:C(R')COO(XO)_nSO₃M and having mass av. mol. wt. 1,000,000-10,000,000, where R = higher alkyl, R' = H or Me,

X

= alkylene, M = alkali metal or ammonium, and n = integer of 2-20. Thus, 9.08 g N-isopropylacrylamide and 0.78 g Adeka Reasoap SE 10N (reactive surfactant) were copolymerized using 0.061 g ammonium persulfate at

60.degree.

for 2 to give a polymer with mass av. mol. wt. 1,640,000 and reactive surfactant content 1.11%. A 5% aq. soln. of the resulting polymer showed syneresis rate 86% after kept at 50.degree. for 2.5 h.

IT 301848-32-8P, Adeka Reasoap SE 10N-N-isopropylacrylamide-N-tert-butylacrylamide graft copolymer

RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(prepn. of thermally reversible hydrophilic-hydrophobic copolymers useful as syneresis agents)

RN 301848-32-8 CAPLUS

CN 2-Propenamide, N-(1,1-dimethylethyl)-, polymer with N-(1-methylethyl)-2-propenamide and .alpha.-sulfo-.omega.-[1-[(nonylphenoxy)methyl]-2-(2-propenyloxy)ethoxy]poly(oxy-1,2-ethanediyl) ammonium salt, graft (9CI) (CA INDEX NAME)

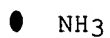
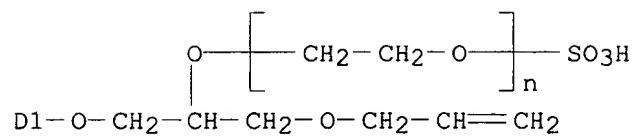
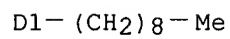
CM 1

CRN 113405-85-9

CMF (C2 H4 O)_n C21 H34 O6 S . H3 N

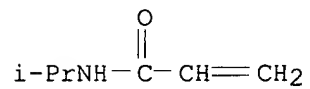
CCI IDS, PMS

CDES 8:ID



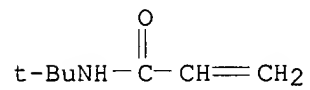
CM 2

CRN 2210-25-5
CMF C6 H11 N O



CM 3

CRN 107-58-4
CMF C7 H13 N O



L24 ANSWER 2 OF 46 CAPLUS COPYRIGHT 2000 ACS

AN 2000:686296 CAPLUS

DN 133:267265

TI Water-soluble or water-dispersible polymer salts and their use in cosmetic

and pharmaceutical formulations

IN Nguyen, Kim Son; Sanner, Axel; Hossel, Peter

PA BASF Aktiengesellschaft, Germany

SO Eur. Pat. Appl., 31 pp.

CODEN: EPXXDW

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1038891	A2	20000927	EP 2000-106470	20000324
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	DE 19913875	A1	20000928	DE 1999-19913875	19990326
	JP 2000302837	A2	20001031	JP 2000-82459	20000323
	CN 1269377	A	20001011	CN 2000-104817	20000327
PRAI	DE 1999-19913875		19990326		
AB	The salts, esp. useful in hair sprays, consist of a polymer with free amino or acid groups and, resp., compds. with .gtoreq.2 acid (or a polybasic inorg. acid) or amino groups, where the latter compd. also contains a hydrophilic group. Thus, a polyester diol (from adipic acid, 1,6-hexanediol, and isophthalic acid) 1.0, neopentyl glycol 1.2, dimethylolpropionic acid 2.7, and IPDI 5.0 mol were polymd. to give a carboxy group-contg. polyurethane, which was neutralized with N-methyldipropylenetriamine.				
IT	297168-84-4P				
	RL: BUU (Biological use, unclassified); IMF (Industrial manufacture); PRP (Properties); BIOL (Biological study); PREP (Preparation); USES (Uses) (water-sol. or water-dispersible polymer salts for use in cosmetic and pharmaceutical formulations)				
RN	297168-84-4 CAPLUS				
CN	2-Propenoic acid, 2-methyl-, polymer with butyl 2-propenoate and 1,1-dimethylethyl 2-propenoate, compd. with .alpha.,.alpha.'-[[(9Z)-9-octadecenylimino]di-2,1-ethanediyl]bis[.omega.-hydroxypoly(oxy-1,2-ethanediyl)] (9CI) (CA INDEX NAME)				

CM 1

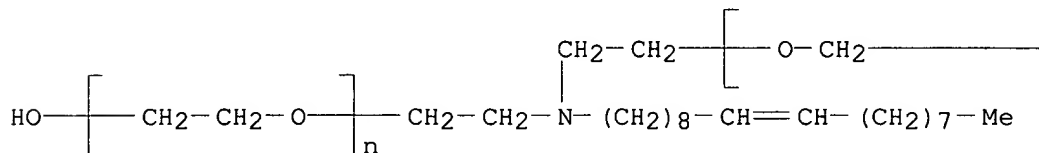
CRN 26635-93-8

CMF (C2 H4 O)n (C2 H4 O)n C22 H45 N O2

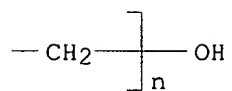
CCI PMS

CDES 2:Z

PAGE 1-A



PAGE 1-B



CM 2

CRN 154838-98-9

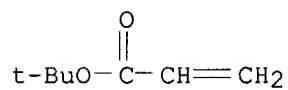
CMF (C7 H12 O2 . C7 H12 O2 . C4 H6 O2)x

CCI PMS

CM 3

CRN 1663-39-4

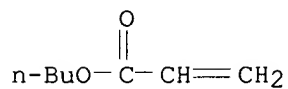
CMF C7 H12 O2



CM 4

CRN 141-32-2

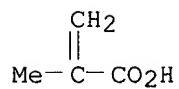
CMF C7 H12 O2



CM 5

CRN 79-41-4

CMF C4 H6 O2



L24 ANSWER 3 OF 46 CAPLUS COPYRIGHT 2000 ACS

AN 2000:665681 CAPLUS

DN 133:259344

TI Ultraviolet curable resin composition and photosolder resist ink using
the

same

IN Kubo, Tatsuya; Fuyjimoto, Masatoshi; Hashimoto, Soichi

PA Goo Chemical Co., Ltd., Japan

SO Eur. Pat. Appl., 19 pp.

CODEN: EPXXDW

DT Patent

LA English

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1037111	A1	20000920	EP 2000-105770	20000317
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	JP 2000330276	A2	20001130	JP 2000-55760	20000301

PRAI JP 1999-72809 19990317

JP 2000-55760 20000301

AB The invention relates to an UV-curable resin compn. used in UV-curable
and

thermosetting -type photo solder resist inks developed with aq. alkali soln., pixels and protective films for color filter and in the manuf. of printed wiring boards having fine-line, dense conductive pattern. An UV curable resin compn. includes (A) an UV curable resin, (B) an epoxy compd.

having .gtoreq.2 epoxy groups in 1 mol, (C) a photopolymn. initiator and (D) a diluent. The UV curable resin (A) is obtained by the steps of polymg. an ethylenically unsatd. monomer component contg. (a) an ethylenically unsatd. monomer having epoxy group and (b) a compd. having .gtoreq.2 ethylenically unsatd. groups in 1 mol to prep. a copolymer, reacting the copolymer with (c) an ethylenically unsatd. monomer having carboxyl group to prep. a chem. intermediate, and reacting the chem. intermediate with (d) 1 of satd. and unsatd. polybasic acid anhydrides. This resin compn. will be preferably used to prep. a photo solder resist ink developable with dild. alk. aq. soln.

IT 295327-16-1, Glycidyl methacrylate-polypropylene glycol dimethacrylate-methyl methacrylate-tert-butyl methacrylate copolymer, telomer with lauryl mercaptan, acrylate 296241-01-5, Glycidyl methacrylate-bisphenol A polyethylene glycol polypropylene glycol dimethacrylate-methyl methacrylate-tert-butyl methacrylate copolymer, telomer with lauryl mercaptan, acrylate

RL: NUU (Nonbiological use, unclassified); TEM (Technical or engineered material use); USES (Uses)

(UV-curable resin compn. for photosolder resist ink, prepn. of)

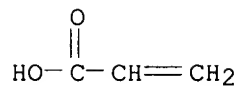
RN 295327-16-1 CAPLUS

CN 2-Propenoic acid, 2-methyl-, 1,1-dimethylethyl ester, telomer with 1-dodecanethiol, methyl 2-methyl-2-propenoate, .alpha.-(2-methyl-1-oxo-2-propenyl)-.omega.-[(2-methyl-1-oxo-2-propenyl)oxy]poly[oxy(methyl-1,2-ethanediyl)] and oxiranylmethyl 2-methyl-2-propenoate, 2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 79-10-7

CMF C3 H4 O2



CM 2

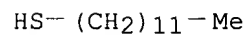
CRN 295327-15-0

CMF C12 H26 S . (C8 H14 O2 . C7 H10 O3 . C5 H8 O2 . (C3 H6 O)n C8 H10 O3)x

CM 3

CRN 112-55-0

CMF C12 H26 S



CM 4

CRN 295327-14-9

CMF (C8 H14 O2 . C7 H10 O3 . C5 H8 O2 . (C3 H6 O)n C8 H10 O3)x

CCI PMS

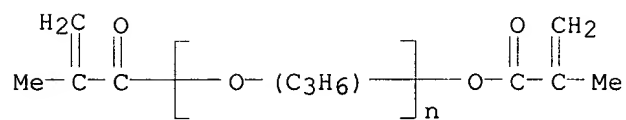
CM 5

CRN 25852-49-7

CMF (C3 H6 O)n C8 H10 O3

CCI IDS, PMS

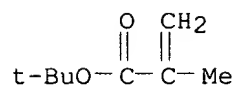
CDES 8:ID



CM 6

CRN 585-07-9

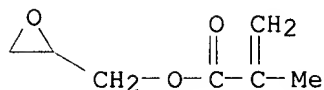
CMF C8 H14 O2



CM 7

CRN 106-91-2

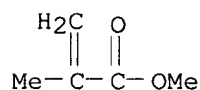
CMF C7 H10 O3



CM 8

CRN 80-62-6

CMF C5 H8 O2



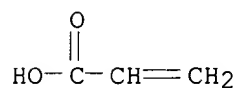
RN 296241-01-5 CAPLUS

CN 2-Propenoic acid, 2-methyl-, 1,1-dimethylethyl ester, telomer with 1-dodecanethiol, methyl 2-methyl-2-propenoate, methyloxirane polymer with oxirane ether with 4,4'-(1-methylethylidene)bis[phenol] (2:1) bis(2-methyl-2-propenoate), and oxiranylmethyl 2-methyl-2-propenoate, 2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 79-10-7

CMF C3 H4 O2



CM 2

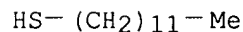
CRN 296241-00-4

CMF (C15 H16 O2 . C8 H14 O2 . C7 H10 O3 . C5 H8 O2 . 2 C4 H6 O2 . 2 (C3 H6 O . C2 H4 O)x)x . C12 H26 S

CM 3

CRN 112-55-0

CMF C12 H26 S



CM 4

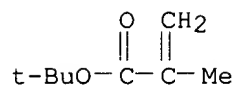
CRN 296240-99-8

CMF (C15 H16 O2 . C8 H14 O2 . C7 H10 O3 . C5 H8 O2 . 2 C4 H6 O2 . 2

CCI (C3 H6 O . C2 H4 O)x)x
PMS

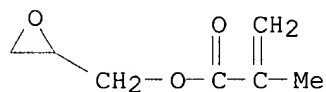
CM 5

CRN 585-07-9
CMF C8 H14 O2



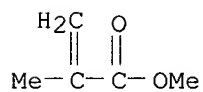
CM 6

CRN 106-91-2
CMF C7 H10 O3



CM 7

CRN 80-62-6
CMF C5 H8 O2

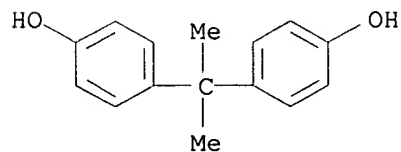


CM 8

CRN 83868-76-2
CMF C15 H16 O2 . 2 C4 H6 O2 . 2 (C3 H6 O . C2 H4 O)x
CDES 8:GD, ESTER, ETHER

CM 9

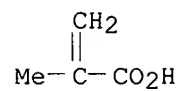
CRN 80-05-7
CMF C15 H16 O2



CM 10

CRN 79-41-4

CMF C4 H6 O2



CM 11

CRN 9003-11-6

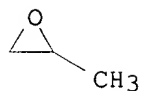
CMF (C3 H6 O . C2 H4 O)x

CCI PMS

CM 12

CRN 75-56-9

CMF C3 H6 O



CM 13

CRN 75-21-8

CMF C2 H4 O



RE.CNT 2

RE

(1) Goo Chemical Co Ltd; EP 0733683 A 1996 CAPLUS

(2) Goo Chemical Ind Co Ltd; EP 0864926 A 1998 CAPLUS

L24 ANSWER 4 OF 46 CAPLUS COPYRIGHT 2000 ACS

AN 2000:544874 CAPLUS

DN 133:152045

TI Aqueous acrylic emulsion coating compositions

IN Fukuzumi, Tatsushi

PA Mitsubishi Rayon Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 7 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2000219844	A2	20000808	JP 1999-23978	19990201

AB Title compns., having good compatibility and adhesion to fluororesins and useful for building materials, contain polymers prepd. from tert-Bu (meth)acrylates 5-80, ethylenic unsatd. compds. 0.1-10, and other ethylenic unsatd. compds. 10-94.9%. An aq. emulsion (A) contg.

25:34:39:2

Bu methacrylate-tert-Bu methacrylate-2-ethylhexyl acrylate-methacrylic acid copolymer showed good compatibility to Lumiflon FE 3000 (1:1 A and Lumiflon FE 3000 mixt. giving transparent film) and was mixed with additives, spread on a mortar plate, baked, covered with Lumiflon FE

3000,

and baked to form a plate with good interlayer adhesion.

IT **287178-22-7P**, Adipic dihydrazide-butyl methacrylate-tert-butyl methacrylate-cyclohexyl methacrylate-isobornyl acrylate-diacetone acrylamide-Acryester HH-Adekareasoap SE 10N copolymer
 RL: IMF (Industrial manufacture); POF (Polymer in formulation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (crosslinked; tert-Bu (meth)acrylate- and COOH-contg. acrylic resin

aq.

coatings with adhesion and compatibility to fluororesins)

RN 287178-22-7 CAPLUS

CN 1,2-Cyclohexanedicarboxylic acid, mono[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl] ester, polymer with butyl 2-methyl-2-propenoate, cyclohexyl 2-methyl-2-propenoate, 1,1-dimethylethyl

2-methyl-2-propenoate,

N-(1,1-dimethyl-3-oxobutyl)-2-propenamide, hexanedioic acid dihydrazide, .alpha.-sulfo-.omega.-[1-[(nonylphenoxy)methyl]-2-(2-propenyloxy)ethoxy]poly(oxy-1,2-ethanediyl) ammonium salt and rel-(1R,2R,4R)-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl 2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 113405-85-9

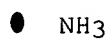
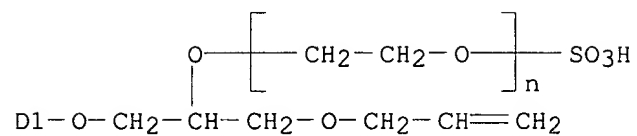
CMF (C2 H4 O)n C21 H34 O6 S . H3 N

CCI IDS, PMS

CDES 8:ID



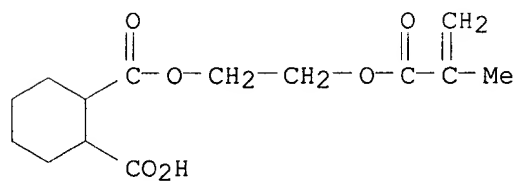
D1- (CH₂)₈-Me



CM 2

CRN 51252-88-1

CMF C14 H20 O6



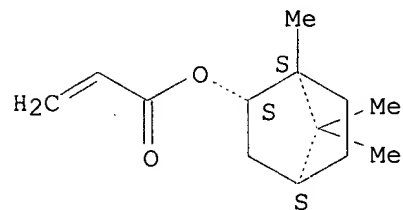
CM 3

CRN 5888-33-5

CMF C13 H20 O2

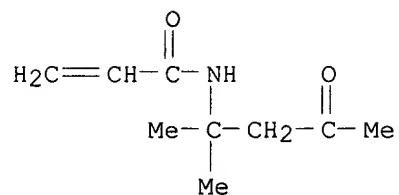
CDES 2:EXO

Relative stereochemistry.



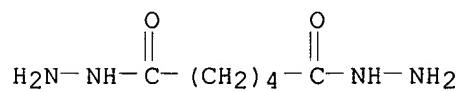
CM 4

CRN 2873-97-4
CMF C9 H15 N O2



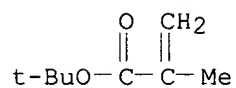
CM 5

CRN 1071-93-8
CMF C6 H14 N4 O2



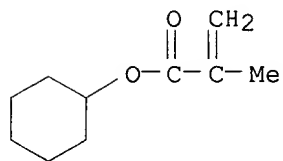
CM 6

CRN 585-07-9
CMF C8 H14 O2



CM 7

CRN 101-43-9
CMF C10 H16 O2



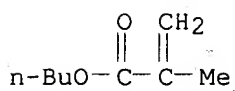
CM 8

CRN 97-88-1
CMF C8 H14 O2

WILLIS

09/382708

Page 16



L24 ANSWER 5 OF 46 CAPLUS COPYRIGHT 2000 ACS

AN 2000:144053 CAPLUS

DN 132:185241

TI Hair fixative

IN Kim, Son Nguyen; Sanner, Axel; Hoessel, Peter; Dausch, Wilma M.

PA BASF A.-G., Germany

SO Ger. Offen., 20 pp.

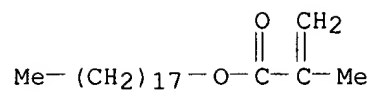
CODEN: GWXXBX

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 19838851	A1	20000302	DE 1998-19838851	19980826
	JP 2000072613	A2	20000307	JP 1999-238609	19990825
	EP 992235	A1	20000412	EP 1999-116625	19990825
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	CN 1250648	A	20000419	CN 1999-121752	19990826
PRAI	DE 1998-19838851		19980826		
AB	Hair fixatives which show no flaking effect and are compatible with propellant gases are provided which contain film-forming polymers based on				
	a combination of (a) .gtoreq.1 .alpha.,.beta.-ethylenically unsatd. monomer H2C:CR1C(O)X1CMe2 (R1 = H, C1-8 alkyl; X1 = O, NR2; R2 = H, C1-8 alkyl, C5-8 cycloalkyl), (b) .gtoreq.1 .alpha.,.beta.-ethylenically unsatd. mono- or dicarboxylic acid, (c) .gtoreq.1 compd. contg. .gtoreq.1 .alpha.,.beta.-ethylenically unsatd. double bond and .gtoreq.5 alkylene oxide units, and (d) .gtoreq.1 compd. with .gtoreq.1 .alpha.,.beta.-ethylenically unsatd. double bond and .gtoreq.1 straight- or branched-chain C8-30 alkyl or alkylene group, or their salts. The features of monomers (c) and (d) may be combined in a single monomer mol. These polymers are also useful as coatings or binders for pharmaceuticals, as well as in coatings for the textile, paper, printing, leather, and adhesive industries. Thus, 1 mol Lutensol AT 25 (ethoxylated C16-18 fatty alc.) dissolved in 100 g acetone at 60.degree. was mixed with 1 mol isophorone diisocyanate under reflux, followed by 3 mol neopentyl glycol and 4 mol hexamethylene diisocyanate. After reaction of the isocyanates was complete, the mixt. was cooled to 30.degree. and 1 mol Tegomer A-Si 2122 (polysiloxanediamine) was added as an 80% soln. in acetone, followed by 1 mol tert-butylaminoethyl methacrylate at .ltoreq.40.degree. to produce a polyurethane-polymethacrylate.				
IT	259274-26-5 259274-27-6				
	RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses) (hair fixative)				
RN	259274-26-5 CAPLUS				
CN	2-Propenoic acid, 2-methyl-, polymer with 1,1-dimethylethyl 2-propenoate, .alpha.-(2-methyl-1-oxo-2-propenyl)-.omega.-[(2-methyl-1-oxo-2-propenyl)oxy]poly(oxy-1,2-ethanediyl) and octadecyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)				
CM	1				
CRN	32360-05-7				
CMF	C22 H42 O2				

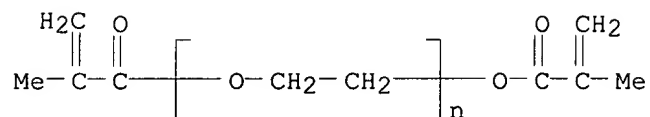


CM 2

CRN 25852-47-5

CMF (C2 H4 O)_n C8 H10 O3

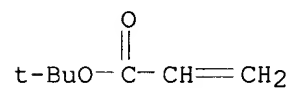
CCI PMS



CM 3

CRN 1663-39-4

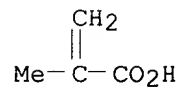
CMF C7 H12 O2



CM 4

CRN 79-41-4

CMF C4 H6 O2



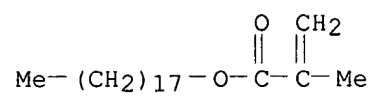
RN 259274-27-6 CAPLUS

CN 2-Propenoic acid, 2-methyl-, octadecyl ester, polymer with
 1,1-dimethylethyl 2-propenoate, .alpha.-(2-methyl-1-oxo-2-propenyl)-
 .omega.-[(2-methyl-1-oxo-2-propenyl)oxy]poly(oxy-1,2-ethanediyl) and
 2-propenoic acid (9CI) (CA INDEX NAME)

CM 1

CRN 32360-05-7

CMF C22 H42 O2

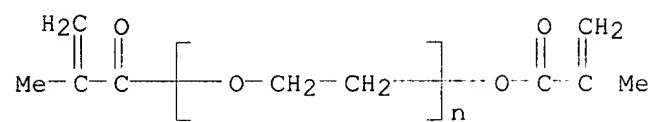


CM 2

CRN 25852-47-5

CMF (C2 H4 O)_n C8 H10 O3

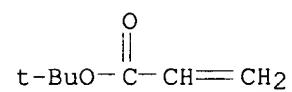
CCI PMS



CM 3

CRN 1663-39-4

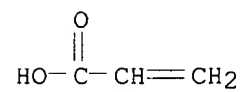
CMF C7 H12 O2



CM 4

CRN 79-10-7

CMF C3 H4 O2



WILLIS

09/382708

Page 20

WILLIS

09/382708

Page 21

=> d bib abs hitstr 6-46

L24 ANSWER 6 OF 46 CAPLUS COPYRIGHT 2000 ACS
AN 2000:139319 CAPLUS
DN 132:182141
TI Primers for improving the coatability of sealants
IN Hirata, Nobuto; Noda, Sumio
PA Kansai Paint Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 8 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	-----	-----	-----	-----
PI	JP 2000063703	A2	20000229	JP 1998-237865	19980825
AB	The primers are obtained from (A) alkoxysilyl group-contg. acrylic modified epoxy resins, (B) epoxy curing agents and (C) organotin compds. Thus, heating 280 parts Epikote 828EL (epoxy resin) with 1250 parts a copolymer of methacrylic acid 20, styrene 200, Me methacrylate 100, tert-Bu methacrylate 270, 2-ethylhexyl methacrylate 340 and .gamma.-methacryloxypropyltrimethoxysilane 80 parts and 0.2 part tetraethylammonium bromide at 130.degree. for .apprx.2 h gave an acrylic modified epoxy resin which was dild. with 40 parts mineral spirit to give a soln. (A) with 65% solids content and epoxy equiv. wt. 864. Mixing the A 100 with TSL 838 (silane coupler) 5, TSL 8350 (silane coupler) 3, Micro Ace L-1 (talc) 50, A Solvent 42, 7A 122N 90 (ketimine-contg. polyamide curing agent) 33.3, TSL 8331 (silane coupler) 1.7, Stann BL (organotin) 0.8 and mineral spirit 14.2 parts gave a primer which showed good improvement in coatability on a sealer applied on a flexible board surface.				
IT	259232-87-6, 7A122N90-Bisphenol A diglycidyl ether-tert-butyl methacrylate-2-ethylhexyl methacrylate-methacrylic acid-.gamma.-methacryloxypropyltrimethoxysilane-methyl methacrylate-styrene copolymer RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical o: engineered material use); USES (Uses) (primers for improving paintability of sealants)				
RN	259232-87-6 CAPLUS				
CN	2-Propenoic acid, 2-methyl-, polymer with 7A122N90, 1,1-dimethylethyl 2-methyl-2-propenoate, ethenylbenzene, 2-ethylhexyl 2-methyl-2-propenoate, 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis[oxirane], methyl 2-methyl-2-propenoate and 3-(trimethoxysilyl)propyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)				

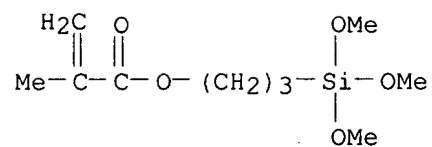
CM 1

CRN 259229-72-6
CMF Unspecified
CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

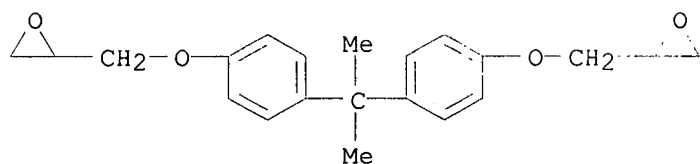
CM 2

CRN 2530-85-0
CMF C10 H20 O5 Si



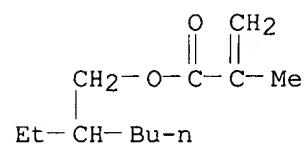
CM 3

CRN 1675-54-3
CMF C21 H24 O4



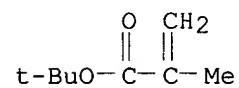
CM 4

CRN 688-84-6
CMF C12 H22 O2



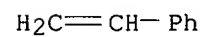
CM 5

CRN 585-07-9
CMF C8 H14 O2



CM 6

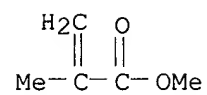
CRN 100-42-5
CMF C8 H8



CM 7

CRN 80-62-6

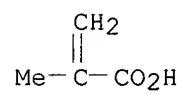
CMF C5 H8 O2



CM 8

CRN 79-41-4

CMF C4 H6 O2



L24 ANSWER 7 OF 46 CAPLUS COPYRIGHT 2000 ACS
AN 1999:228022 CAPLUS
DN 130:298041
TI Modified epoxy resin-based coating compositions
IN Noda, Sumio; Hirata, Nobuto
PA Kansai Paint Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 9 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----		-----	-----	-----
PI	JP 11092711	A2	19990406	JP 1998-206042	19980722
PRAI	JP 1997-196262		19970723		

AB Title coating compns. are sol. in mineral spirits, provide coatings with good adhesion and corrosion and impact resistance when applied to a sealing material, and comprise (A) a modified epoxy resin, a curing agent for the epoxy resin, and a petroleum solvent. The modified epoxy resin is selected from (1) reaction products of an epoxy resin with a carboxy-contg. acrylic resin, (2) reaction products of an epoxy resin with an anhydride group-contg. acrylic resin, and (3) epoxy resins grafted or copolymd. with unsatd. monomers. The curing agent is selected from dimer acid-modified polyamide resins and/or ketaminated dimer acid-modified polyamide resins.

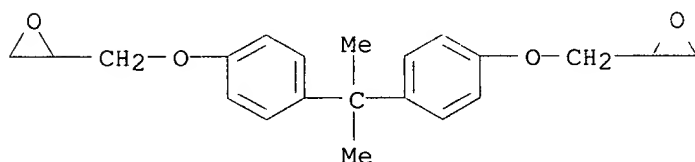
IT 222989-83-5DP, reaction products
RL: IMF (Industrial manufacture); POF (Polymer in formulation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (modified epoxy resin-based coating compns.)

RN 222989-83-5 CAPLUS

CN 2-Propenoic acid, 2-methyl-, 1,1-dimethylethyl ester, polymer with ethenylbenzene, 2-ethylhexyl 2-methyl-2-propenoate, 2,5-furandione, 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis[oxirane] and methyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

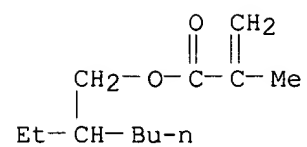
CM 1

CRN 1675-54-3
CMF C21 H24 O4



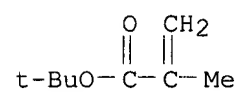
CM 2

CRN 688-84-6
CMF C12 H22 O2



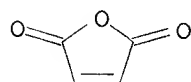
CM 3

CRN 585-07-9
CMF C8 H14 O2



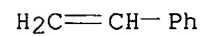
CM 4

CRN 108-31-6
CMF C4 H2 O3



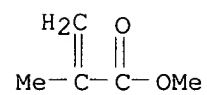
CM 5

CRN 100-42-5
CMF C8 H8



CM 6

CRN 80-62-6
CMF C5 H8 O2



L24 ANSWER 8 OF 46 CAPLUS COPYRIGHT 2000 ACS

AN 1999:208753 CAPLUS

DN 130:268593

TI Manufacture of thermal-curable acrylic polysiloxane powder coatings

IN Adachi, Naoto; Kawamoto, Torimoto; Numa, Nobushige; Ohgoshi, Toshio

PA Kansai Paint Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 11080605	A2	19990326	JP 1997-238756	19970904

AB Title coatings, useful for automobile bodies, are prepd. by dissolving compns. contg. (a) glycidyl group-reactive crosslinkers and (b) vinyl polymers from alkoxysilyl-contg. vinyl compds. $R_3-nSi(OCmH_{2m+1})_n$ (R = alkyl or Ph; when $m = 1$, $n = 2$; when $m \geq 2$, $n = 2$ or 3) 2-15, glycidyl-contg. vinyl compds. 20-50, and other vinyl compds. 35-78% in solvent mixts. consisting of tert-BuOH 50-100, dioxane 0-50, and other solvents 0-20%, followed by freeze-drying in vacuum. Dissolving 25 parts dodecanedioic acid and 200 parts a polymer [from .gamma.-(meth)acryloxypropyltriethoxysilane 8, tert-Bu methacrylate 26, cyclohexyl methacrylate 30, glycidyl methacrylate 17, .beta.-methylglycidyl (meth)acrylate 19 parts] in 190 parts tert-BuOH, freeze-drying at -10.degree. and 10 mmHg, and pulverizing gave a powder, which was deposited on a substrate and baked at 140.degree. for 30 min to form a film with gloss 88% and good scratch resistance.

IT **221894-83-3P**, .gamma.-Acryloxypropyltriethoxysilane-tert-butyl methacrylate-cyclohexyl methacrylate-dodecanedioic acid-glycidyl methacrylate-.gamma.-methacryloxypropyltriethoxysilane-.beta.-methylglycidyl acrylate-.beta.-methylglycidyl methacrylate copolymer **221894-84-4P 221894-86-6P 221894-87-7P**
 RL: IMF (Industrial manufacture); PEP (Physical, engineering or chemical process); TEM (Technical or engineered material use); PREP (Preparation); PROC (Process); USES (Uses)
 (manuf. of diacid-curable glycido acrylic siloxane powd. coatings with smoothness and scratch resistance)

RN 221894-83-3 CAPLUS

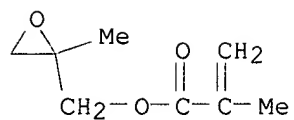
CN Dodecanedioic acid, polymer with cyclohexyl 2-methyl-2-propenoate, 1,1-dimethylethyl 2-methyl-2-propenoate, (2-methyloxiranyl)methyl 2-methyl-2-propenoate, (2-methyloxiranyl)methyl 2-propenoate, oxiranylmethyl 2-methyl-2-propenoate, 3-(triethoxysilyl)propyl 2-methyl-2-propenoate and 3-(triethoxysilyl)propyl 2-propenoate (9CI)

(CA INDEX NAME)

CM 1

CRN 41768-20-1

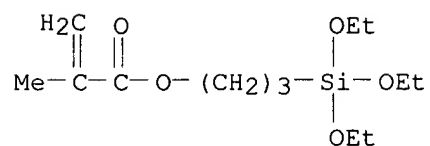
CMF C8 H12 O3



CM 2

CRN 21142-29-0

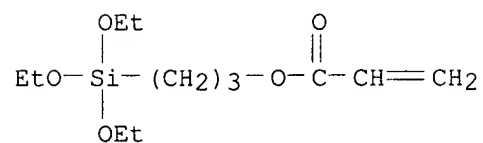
CMF C13 H26 O5 Si



CM 3

CRN 20208-39-3

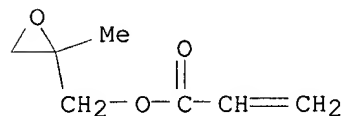
CMF C12 H24 O5 Si



CM 4

CRN 19900-46-0

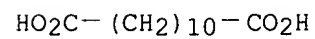
CMF C7 H10 O3



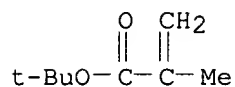
CM 5

CRN 693-23-2

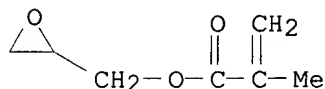
CMF C12 H22 O4



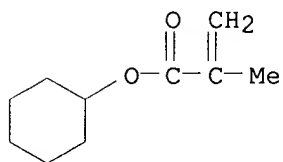
CM 6

CRN 585-07-9
CMF C8 H14 O2

CM 7

CRN 106-91-2
CMF C7 H10 O3

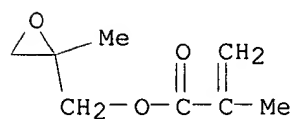
CM 8

CRN 101-43-9
CMF C10 H16 O2

RN 221894-84-4 CAPLUS

CN Dodecanedioic acid, polymer with cyclohexyl 2-methyl-2-propenoate, 3-(dimethoxymethylsilyl)propyl 2-methyl-2-propenoate, 3-(dimethoxymethylsilyl)propyl 2-propenoate, 1,1-dimethylethyl 2-methyl-2-propenoate, (2-methyloxiranyl)methyl 2-methyl-2-propenoate, (2-methyloxiranyl)methyl 2-propenoate and oxiranylmethyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

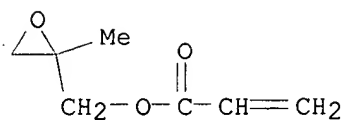
CM 1

CRN 41768-20-1
CMF C8 H12 O3

CM 2

CRN 19900-46-0

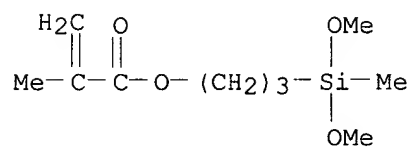
CMF C7 H10 O3



CM 3

CRN 14513-34-9

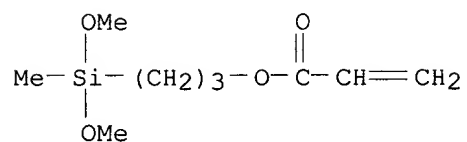
CMF C10 H20 O4 Si



CM 4

CRN 13732-00-8

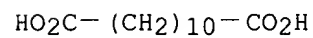
CMF C9 H18 O4 Si



CM 5

CRN 693-23-2

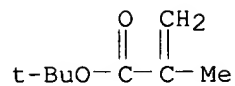
CMF C12 H22 O4



CM 6

CRN 585-07-9

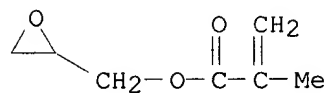
CMF C8 H14 O2



CM 7

CRN 106-91-2

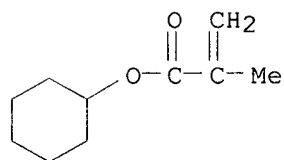
CMF C7 H10 O3



CM 8

CRN 101-43-9

CMF C10 H16 O2



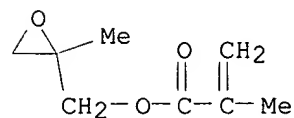
RN 221894-86-6 CAPLUS

CN Dodecanedioic acid, polymer with cyclohexyl 2-methyl-2-propenoate, 1,1-dimethylethyl 2-methyl-2-propenoate, ethenylbenzene, (2-methyloxiranyl)methyl 2-methyl-2-propenoate, (2-methyloxiranyl)methyl 2-propenoate, oxiranylmethyl 2-methyl-2-propenoate, 3-(triethoxysilyl)propyl 2-methyl-2-propenoate and 3-(triethoxysilyl)propyl 2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 41768-20-1

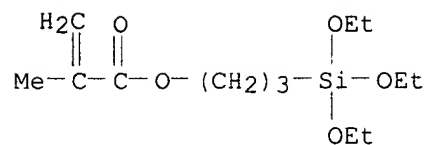
CMF C8 H12 O3



CM 2

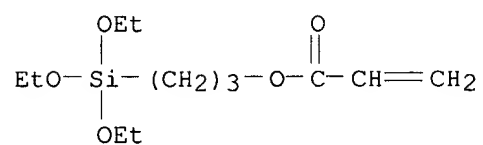
CRN 21142-29-0

CMF C13 H26 O5 Si



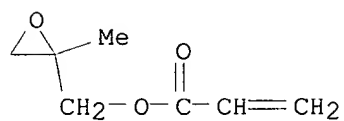
CM 3

CRN 20208-39-3
CMF C12 H24 O5 Si



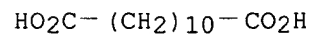
CM 4

CRN 19900-46-0
CMF C7 H10 O3



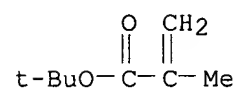
CM 5

CRN 693-23-2
CMF C12 H22 O4



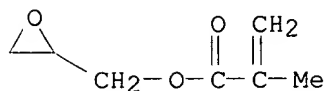
CM 6

CRN 585-07-9
CMF C8 H14 O2



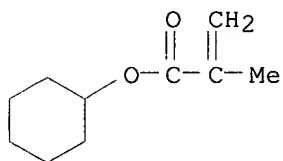
CM 7

CRN 106-91-2
CMF C7 H10 O3



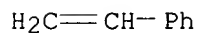
CM 8

CRN 101-43-9
CMF C10 H16 O2



CM 9

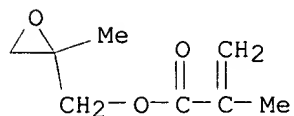
CRN 100-42-5
CMF C8 H8



RN 221894-87-7 CAPLUS
CN Dodecanedioic acid, polymer with cyclohexyl 2-methyl-2-propenoate, 3-(dimethoxymethylsilyl)propyl 2-methyl-2-propenoate, 3-(dimethoxymethylsilyl)propyl 2-propenoate, 1,1-dimethylethyl 2-methyl-2-propenoate, ethenylbenzene, (2-methyloxiranyl)methyl 2-methyl-2-propenoate, (2-methyloxiranyl)methyl 2-propenoate and oxiranylmethyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

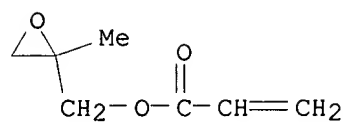
CRN 41768-20-1
CMF C8 H12 O3



CM 2

CRN 19900-46-0

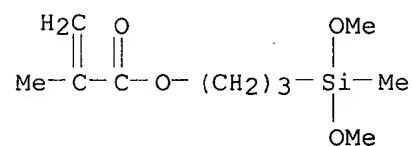
CMF C7 H10 O3



CM 3

CRN 14513-34-9

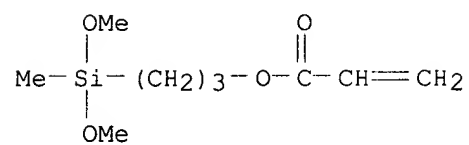
CMF C10 H20 O4 Si



CM 4

CRN 13732-00-8

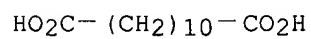
CMF C9 H18 O4 Si



CM 5

CRN 693-23-2

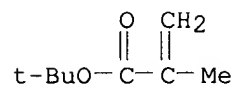
CMF C12 H22 O4



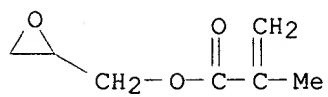
CM 6

CRN 585-07-9

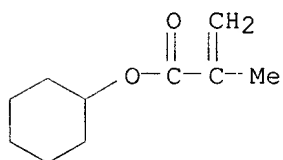
CMF C8 H14 O2



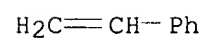
CM 7

CRN 106-91-2
CMF C7 H10 O3

CM 8

CRN 101-43-9
CMF C10 H16 O2

CM 9

CRN 100-42-5
CMF C8 H8

L24 ANSWER 9 OF 46 CAPLUS COPYRIGHT 2000 ACS

AN 1999:206264 CAPLUS

DN 130:268591

TI Manufacture of thermal-curable vinyl polymer powder coatings

IN Adachi, Naoto; Kawamoto, Torimoto; Numa, Nobushige; Ohgoshi, Toshio

PA Kansai Paint Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 5 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 11080604	A2	19990326	JP 1997-238755	19970904

AB Title coatings, useful for automobile bodies, are prepd. by dissolving compns. contg. (a) acid anhydrides and/or poly(carboxylic acid) crosslinkers and (b) vinyl polymers from NCO-contg. vinyl compds. 2-15, glycidyl-contg. vinyl compds. 20-50, and other vinyl compds. 35-78% in solvent mixts. consisting of tert-BuOH 50-100, dioxane 0-50, and other solvents 0-20%, followed by freeze-drying in vacuum. Dissolving 25 parts dodecanedioic acid and 200 parts a polymer [from iso-Bu methacrylate 8, tert-Bu methacrylate 12, cyclohexyl methacrylate 36, glycidyl methacrylate 17, .beta.-methylglycidyl (meth)acrylate 19, and isocyanatoethyl methacrylate 8 parts] in 190 parts tert-BuOH, freeze-drying at -10.degree. and 10 mmHg, and pulverizing gave a powder, which was deposited on a substrate and baked at 160.degree. for 30 min to form a film with gloss 88% and good scratch resistance.

IT **221892-92-8P**, Isobutyl methacrylate-tert-butyl methacrylate-cyclohexyl methacrylate-dodecanedioic acid-glycidyl methacrylate-isocyanatoethyl methacrylate-.beta.-methylglycidyl acrylate-.beta.-methylglycidyl methacrylate copolymer **221892-94-0P**
221892-95-1P
 RL: IMF (Industrial manufacture); PEP (Physical, engineering or chemical process); TEM (Technical or engineered material use); PREP (Preparation); PROC (Process); USES (Uses)
 (manuf. of polyacid (anhydride)-curable glycido and isocyanato acrylic polymer powd. coatings with smoothness and scratch resistance)

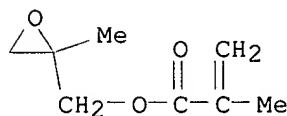
RN 221892-92-8 CAPLUS

CN Dodecanedioic acid, polymer with cyclohexyl 2-methyl-2-propenoate, 1,1-dimethylethyl 2-methyl-2-propenoate, 2-isocyanatoethyl 2-methyl-2-propenoate, (2-methyloxiranyl)methyl 2-methyl-2-propenoate, (2-methyloxiranyl)methyl 2-propenoate, 2-methylpropyl 2-methyl-2-propenoate and oxiranylmethyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 41768-20-1

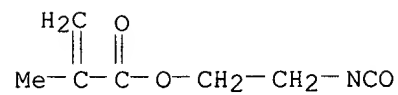
CMF C8 H12 O3



CM 2

CRN 30674-80-7

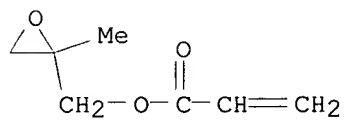
CMF C7 H9 N O3



CM 3

CRN 19900-46-0

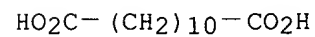
CMF C7 H10 O3



CM 4

CRN 693-23-2

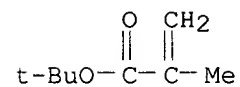
CMF C12 H22 O4



CM 5

CRN 585-07-9

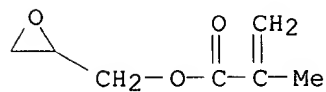
CMF C8 H14 O2



CM 6

CRN 106-91-2

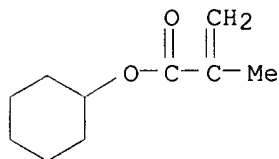
CMF C7 H10 O3



CM 7

CRN 101-43-9

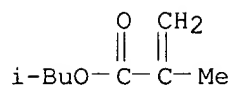
CMF C10 H16 O2



CM 8

CRN 97-86-9

CMF C8 H14 O2



RN 221892-94-0 CAPLUS

CN Dodecanedioic acid, polymer with cyclohexyl 2-methyl-2-propenoate,
1,1-dimethylethyl 2-methyl-2-propenoate, ethenylbenzene,

2-isocyanatoethyl

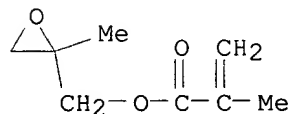
2-methyl-2-propenoate, (2-methyloxiranyl)methyl 2-methyl-2-propenoate,
(2-methyloxiranyl)methyl 2-propenoate, 2-methylpropyl 2-methyl-2-
propenoate and oxiranylmethyl 2-methyl-2-propenoate (9CI) (CA INDEX

NAME)

CM 1

CRN 41768-20-1

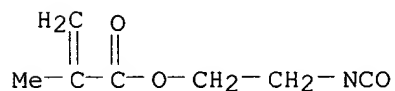
CMF C8 H12 O3



CM 2

CRN 30674-80-7

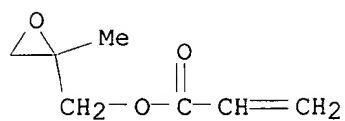
CMF C7 H9 N O3



CM 3

CRN 19900-46-0

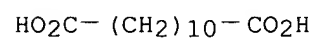
CMF C7 H10 O3



CM 4

CRN 693-23-2

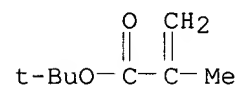
CMF C12 H22 O4



CM 5

CRN 585-07-9

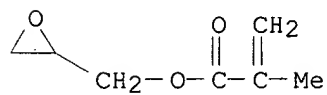
CMF C8 H14 O2



CM 6

CRN 106-91-2

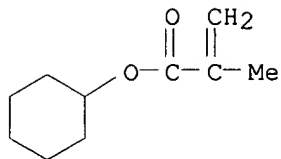
CMF C7 H10 O3



CM 7

CRN 101-43-9

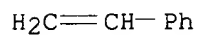
CMF C10 H16 O2



CM 8

CRN 100-42-5

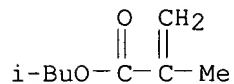
CMF C8 H8



CM 9

CRN 97-86-9

CMF C8 H14 O2



RN 221892-95-1 CAPLUS

CN Dodecanedioic acid, polymer with cyclohexyl 2-methyl-2-propenoate,
1,1-dimethylethyl 2-methyl-2-propenoate,

1-(1-isocyanato-1-methylethyl)-3-

(1-methylethenyl)benzene, (2-methyloxiranyl)methyl 2-methyl-2-propenoate,

(2-methyloxiranyl)methyl 2-propenoate, 2-methylpropyl 2-methyl-2-

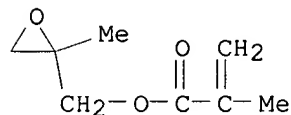
propenoate and oxiranylmethyl 2-methyl-2-propenoate (9CI) (CA INDEX

NAME)

CM 1

CRN 41768-20-1

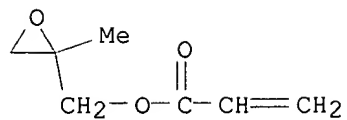
CMF C8 H12 O3



CM 2

CRN 19900-46-0

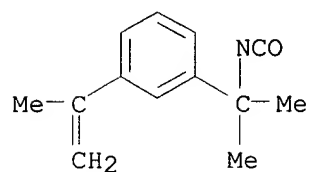
CMF C7 H10 O3



CM 3

CRN 2094-99-7

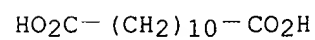
CMF C13 H15 N O



CM 4

CRN 693-23-2

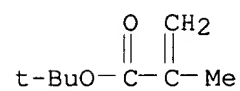
CMF C12 H22 O4



CM 5

CRN 585-07-9

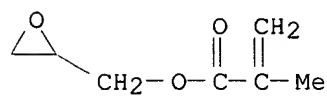
CMF C8 H14 O2



CM 6

CRN 106-91-2

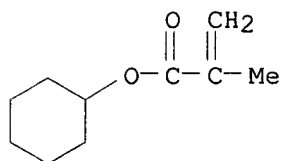
CMF C7 H10 O3



CM 7

CRN 101-43-9

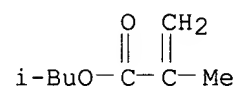
CMF C10 H16 O2



CM 8

CRN 97-86-9

CMF C8 H14 O2



L24 ANSWER 10 OF 46 CAPLUS COPYRIGHT 2000 ACS

AN 1998:758496 CAPLUS

DN 130:53715

TI Fluorine-containing surfactants and coating or resist compositions containing them

IN Tanaka, kazuyoshi; Higuchi, Torao; Hashimoto, Yutaka

PA Dainippon Ink and Chemicals, Inc., Japan

SO Jpn. Kokai Tokkyo Koho, 26 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	---	----	-----	-----
PI	JP 10309455	A2	19981124	JP 1997-122145	19970513
	US 6156860	A	20001205	US 1998-24564	19980217
PRAI	JP 1997-33717		19970218		
	JP 1997-122145		19970513		
	JP 1998-15407		19980128		

AB The surfactants, useful for leveling agents, are copolymers of at least (A) ethylenically unsatd. monomers having fluoroalkyl groups and (B) ethylenically unsatd. monomers having branched aliph. hydrocarbon groups. Thus, CH₂:CHCO₂CH₂CH₂C₈F₁₇ 19,

Me₃CCH₂CHMeCH₂CH₂CH(CHMeCH₂CMe₃)CH₂OCOCH:CH

2 30, ethylene oxide-propylene oxide copolymer monoacrylate 39, tetraethylene glycol dimethacrylate 4, and Me methacrylate were copolymd. in Me₂CHOH in the presence of lauryl mercaptan and AIBN to give a copolymer surfactant, which was added to coatings (acrylic, acrylic-polyurethane, acrylic-melamine, and alkyd-melamine) showing good antifoaming, leveling, and recoating properties.

IT 217174-85-1P

RL: IMF (Industrial manufacture); MOA (Modifier or additive use); PRP (Properties); PREP (Preparation); USES (Uses)

(fluoroalkyl (meth)acrylate polymer surfactants for leveling agents

for

coatings and resists with good recoating properties)

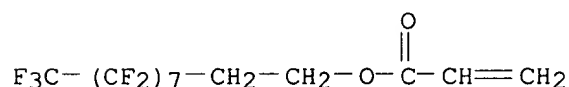
RN 217174-85-1 CAPLUS

CN 2-Propenoic acid, 2-methyl-, oxybis(2,1-ethanediylloxy-2,1-ethanediyl) ester, polymer with 1,1-dimethylethyl 2-propenoate, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluorodecyl 2-propenoate, methyl 2-methyl-2-propenoate and methyloxirane polymer with oxirane mono-2-propenoate, graft (9CI) (CA INDEX NAME)

CM 1

CRN 27905-45-9

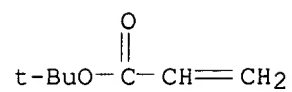
CMF C13 H7 F17 O2



CM 2

CRN 1663-39-4

CMF C7 H12 O2

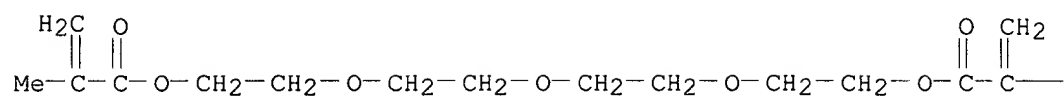


CM 3

CRN 109-17-1

CMF C16 H26 O7

PAGE 1-A



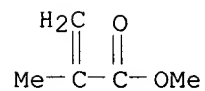
PAGE 1-B

— Me

CM 4

CRN 80-62-6

CMF C5 H8 O2



CM 5

CRN 9041-78-5

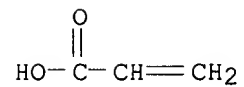
CMF (C3 H6 O . C2 H4 O)x . C3 H4 O2

CDES 8:GD,ESTER

CM 6

CRN 79-10-7

CMF C3 H4 O2



CM 7

CRN 9003-11-6

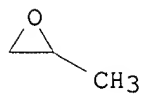
CMF (C3 H6 O . C2 H4 O) x

CCI PMS

CM 8

CRN 75-56-9

CMF C3 H6 O



CM 9

CRN 75-21-8

CMF C2 H4 O



L24 ANSWER 11 OF 46 CAPLUS COPYRIGHT 2000 ACS
AN 1998:589467 CAPLUS
DN 129:277489
TI Aircraft deicing/anti-icing universal fluids
IN Carder, Charles Hobert; Garska, Daniel Christopher; Jenkins, Richard
Duane; McGuinness, Mark Joseph
PA Union Carbide Chemicals and Plastics Technology Corp., USA
SO Jpn. Kokai Tokkyo Koho, 164 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	---	-----	-----	-----
PI	JP 10237428	A2	19980908	JP 1997-78762	19970224
AB	The title fluids comprise an aq. glycol and/or glycerin soln. thickened with a polymeric thickener, and/or its salt after neutralization, in an amt. sufficient to thicken the fluids to permit their adherence to aircraft surfaces when applied to a stationary aircraft but also permit their windshear-induced removal during takeoff, where the thickener comprises 1-99.9% .alpha.,.beta.-unsatd. carboxylic acid(s), 0-98.9% monoethylenically unsatd. monomer(s), 0.1-99% monoethylenically unsatd. monomer(s) contg. one or more pendant hydrophobe moiety, and 0-20% polyethylenically unsatd. monomer(s); the fluids comprise .gtoreq.40% one or more glycols and/or glycerin, .gtoreq.0.05% thickener, neutralizing agent comprising an alkali metal hydroxide in an amt. sufficient to provide a pH .gtoreq.7.1, a surfactant capable of assocg. with the thickener, optionally corrosion inhibitor, dye(s), and water the balance.				
IT	158461-24-6P				
	RL: IMF (Industrial manufacture); NUU (Nonbiological use, unclassified);				
	PREP (Preparation); USES (Uses)				
	(aircraft deicing/anti-icing universal fluids)				
RN	158461-24-6 CAPLUS				

L24 ANSWER 12 OF 46 CAPLUS COPYRIGHT 2000 ACS

AN 1998:561325 CAPLUS

DN 129:190584

TI Producing aqueous ink for ink-jet printing showing good storability and no

scorching on printer head and giving high-d. prints with good flexibility.

IN Tsutsumi, Takehiro; Azuma, Koji; Sawada, Michitaka

PA Kao Corp., Japan

SO Eur. Pat. Appl., 16 pp.

CODEN: EPXXDW

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 857766	A1	19980812	EP 1998-102013	19980205
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	JP 10279873	A2	19981020	JP 1998-10908	19980123
	US 5998501	A	19991207	US 1998-17222	19980202
PRAI	JP 1997-24678		19970207		

AB The title process comprises dissolving a salt-forming group-having polymer

and a hydrophobic dye in a water-insol. org. solvent to obtain a soln., adding water and a neutralizing agent optionally together with a surfactant to the soln. to ionize the salt-forming group of the polymer, emulsifying the resulting mixt., and removing out the solvent from the emulsion to obtain an ink contg. an aq. dispersion of the polymer particles in which the dye has been encompassed. A polymer was prepd. from tert-Bu methacrylate, polyethylene glycol monomethacrylate, acrylic acid, silicone macromer FM 0711, and styrene-acrylonitrile macromer AN 6, neutralized with ammonia, and used with Oil Yellow 129.

IT **211501-40-5P 211501-41-6P**

RL: IMF (Industrial manufacture); POF (Polymer in formulation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (producing aq. ink for ink-jet printing showing good storability and

no

scorching on printer head and giving high-d. prints with good flexibility.)

RN 211501-40-5 CAPLUS

CN 2-Propenoic acid, 2-methyl-, 1,1-dimethylethyl ester, telomer with

.alpha.-[dimethyl[3-[(2-methyl-1-oxo-2-propenyl)oxy]propyl)silyl]-.omega.-[(trimethylsilyl)oxy]poly[oxy(dimethylsilylene)], 1-dodecanethiol, Macromonomer AN 6, .alpha.-(2-methyl-1-oxo-2-propenyl)-.omega.-hydroxypoly(oxy-1,2-ethanediyl) and 2-propenoic acid (9CI) (CA INDEX NAME)

CM 1

CRN 112-55-0

CMF C12 H26 S

HS- (CH₂)₁₁-Me

CM 2

CRN 211989-72-9

CMF (C8 H14 O2 . C3 H4 O2 . (C2 H6 O Si)n C12 H26 O3 Si2 . (C2 H4 O)n C4 H6 O2 . Unspecified)x

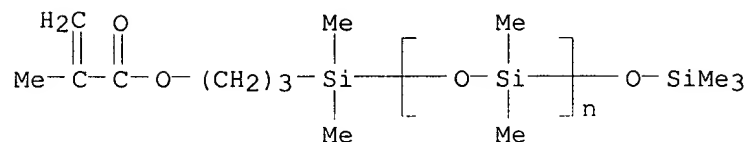
CCI PMS

CM 3

CRN 123109-42-2

CMF (C2 H6 O Si)n C12 H26 O3 Si2

CCI PMS



CM 4

CRN 122525-05-7

CMF Unspecified

CCI PMS, MAN

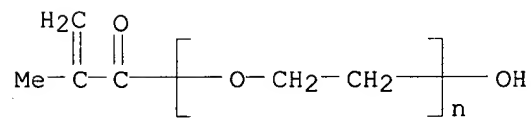
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 5

CRN 25736-86-1

CMF (C2 H4 O)n C4 H6 O2

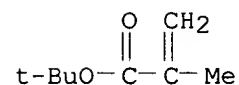
CCI PMS



CM 6

CRN 585-07-9

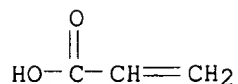
CMF C8 H14 O2



CM 7

CRN 79-10-7

CMF C3 H4 O2



RN 211501-41-6 CAPLUS

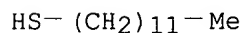
CN 2-Propenoic acid, 2-methyl-, 1,1-dimethylethyl ester, telomer with

.alpha.-[dimethyl[3-[(2-methyl-1-oxo-2-propenyl)oxy]propyl]silyl]-.omega.-
 [(trimethylsilyl)oxy]poly[oxy(dimethylsilylene)], N-(1,1-dimethyl-3-
 oxobutyl)-2-propenamide, 1-dodecanethiol, Macromonomer AN 6,
 .alpha.-(2-methyl-1-oxo-2-propenyl)-.omega.-hydroxypoly(oxy-1,2-
 ethanediyl) and 2-propenoic acid (9CI) (CA INDEX NAME)

CM 1

CRN 112-55-0

CMF C12 H26 S



CM 2

CRN 211989-43-4

CMF (C9 H15 N O2 . C8 H14 O2 . C3 H4 O2 . (C2 H6 O Si)n C12 H26 O3 Si2 .
 (C2 H4 O)n C4 H6 O2 . Unspecified)x

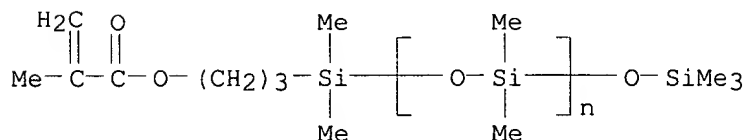
CCI PMS

CM 3

CRN 123109-42-2

CMF (C2 H6 O Si)n C12 H26 O3 Si2

CCI PMS



CM 4

CRN 122525-05-7

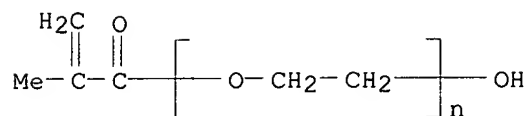
CMF Unspecified

CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

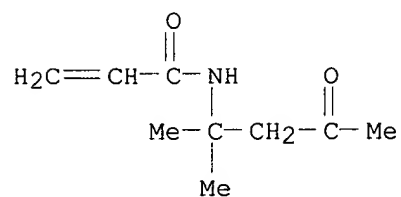
CM 5

CRN 25736-86-1
CMF (C2 H4 O)n C4 H6 O2
CCI PMS



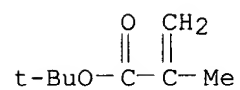
CM 6

CRN 2873-97-4
CMF C9 H15 N O2



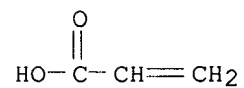
CM 7

CRN 585-07-9
CMF C8 H14 O2



CM 8

CRN 79-10-7
CMF C3 H4 O2



L24 ANSWER 13 OF 46 CAPLUS COPYRIGHT 2000 ACS
 AN 1998:41817 CAPLUS
 DN 128:142041
 TI Aircraft deicing/anti-icing fluids thickened by associative polymers
 IN Carder, Charles Hobert; Garska, Daniel Christopher; Jenkins, Richard
 Duane; McGuinness, Mark Joseph
 PA Union Carbide Chemicals + Plastics Technology Corporation, USA
 SO U.S., 31 pp.
 CODEN: USXXAM
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5708068	A	19980113	US 1995-586970	19950116
	EP 860490	A1	19980826	EP 1997-102888	19970221
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	CA 2198296	AA	19980824	CA 1997-2198296	19970224
	CN 1191882	A	19980902	CN 1997-109986	19970224
	US 5863973	A	19990126	US 1997-939052	19970926

PRAI US 1995-586970 19950116

AB A glycol- and/or glycerin-based universal aircraft fluid, having good resistance to degrdn. of viscosity and other crit. properties caused by exposure to heat and/or shear, is thickened with a latex of a hydrophobe-contg., polymeric thickener neutralized with a base, preferably an alkali metal hydroxide, and preferably in combination with a weak base, such as a salt of a weak acid, and a surfactant. Thus, an associative polymer thickener was prepd. by polymn. (50:40:10 wt. ratio) of Et acrylate, methacrylic acid, and the macromer R1CH2CH2(OC2H4)nOH (R1 = nonylphenoxy) adduct with m-TMI.

IT 202054-28-2P

RL: IMF (Industrial manufacture); MOA (Modifier or additive use); PRP (Properties); PREP (Preparation); USES (Uses)
 (thickeners; aircraft deicing/anti-icing fluids thickened by associative polymers and cosurfactant and/or solvent)

RN 202054-28-2 CAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with 1,1-dimethylethyl 2-propenoate, ethyl 2-propenoate and .alpha.-[[[1-methyl-1-[3-(1-methylethenyl)phenyl]ethyl]amino]carbonyl]-.omega.-[2-(nonylphenoxy)-1-[(nonylphenoxy)methyl]ethoxy]poly(oxy-1,2-ethanediyl), graft (9CI) (CA INDEX NAME)

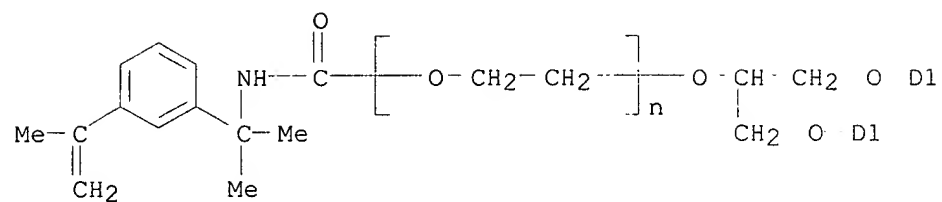
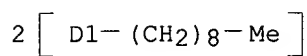
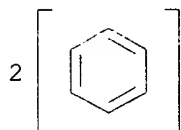
CM 1

CRN 156647-45-9

CMF (C2 H4 O)n C46 H67 N O4

CCI IDS, PMS

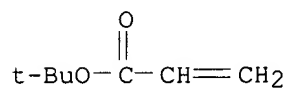
CDES 8:ID



CM 2

CRN 1663-39-4

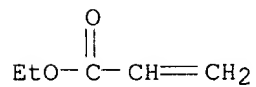
CMF C7 H12 O2



CM 3

CRN 140-88-5

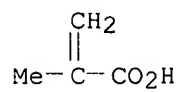
CMF C5 H8 O2



CM 4

CRN 79-41-4

CMF C4 H6 O2



WILLIS

09/382708

Page 53

L24 ANSWER 14 OF 46 CAPLUS COPYRIGHT 2000 ACS

AN 1997:759853 CAPLUS

DN 128:49412

TI Antisoiling water- and oil-repellent compositions soluble in lower alcohols providing good handle on fibers without malodor during fabric finishing

IN Fukushi, Noriyuki; Obayashi, Toyohisa; Amagai, Naoyuki

PA Nippon Oil and Fats Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 13 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 09302334	A2	19971125	JP 1996-114877	19960509
AB	The title compns. comprise (A) block copolymers of CH ₂ :CR ₁ CO ₂ (R ₂) _n R _f polymer segment (R _f = fluoroalkyl; R ₁ = H, me; R ₂ = alkylene; n = a pos. no.) and polymer segment of .gtoreq.1 of alkyl (meth)acrylates and OH-contg. (meth)acrylates and (B) a mono- or dihydroxy lower alc. A copolymer used in isopropanol comprised 30% CH ₂ :CHCO ₂ (C ₂ H ₄ O)3C ₂ H ₄ C ₈ F ₁₇ polymer segment and 70% Bu methacrylate polymer segment.				

IT 200068-08-2P 200068-13-9P

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(antisoiling water- and oil-repellent compns. sol. in lower alcs. providing good handle on fibers without malodor during fabric finishing)

RN 200068-08-2 CAPLUS

CN 2-Propenoic acid, 2-methyl-, 1,1-dimethylethyl ester, polymer with

.alpha.-[dimethyl[3-[(2-methyl-1-oxo-2-propenyl)oxy]propyl)silyl]-.omega.-[(trimethylsilyl)oxy]poly[oxy(dimethylsilylene)], octadecyl 2-propenoate and

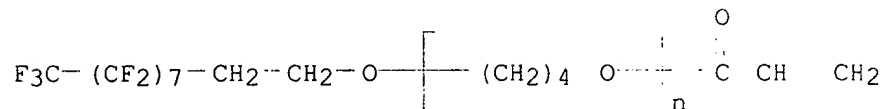
.alpha.-(1-oxo-2-propenyl)-.omega.-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)oxy]poly(oxy-1,4-butanediyl), block (9CI) (CA INDEX NAME)

CM 1

CRN 200068-07-1

CMF (C₄ H₈ O)_n C₁₃ H₇ F₁₇ O₂

CCI PMS

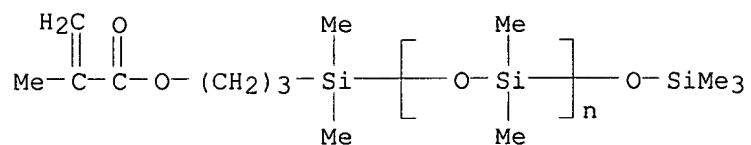


CM 2

CRN 123109-42-2

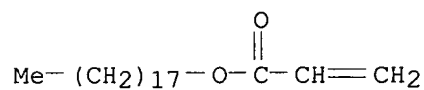
CMF (C₂ H₆ O Si)_n C₁₂ H₂₆ O₃ Si₂

CCI PMS



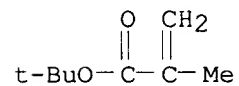
CM 3

CRN 4813-57-4
CMF C21 H40 O2



CM 4

CRN 585-07-9
CMF C8 H14 O2



RN 200068-13-9 CAPLUS

CN 2-Propenoic acid, 2-methyl-, 1,1-dimethylethyl ester, polymer with

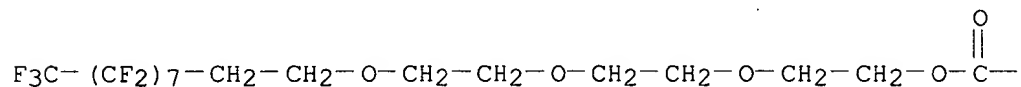
.alpha.-[dimethyl[3-[(2-methyl-1-oxo-2-propenyl)oxy]propyl]silyl]-.omega.-
[(trimethylsilyl)oxy]poly[oxy(dimethylsilylene)], 2-[2-[2-

[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluorodecyl)oxy]ethoxy]eth
oxy]ethyl 2-propenoate and .alpha.-(2-methyl-1-oxo-2-propenyl)-.omega.-
hydroxypoly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

CM 1

CRN 200068-09-3
CMF C19 H19 F17 O5

PAGE 1-A



L24 ANSWER 15 OF 46 CAPLUS COPYRIGHT 2000 ACS

AN 1997:701479 CAPLUS

DN 127:360082

TI Glycol-based aircraft anti-icing fluids thickened by associative polymers containing hydrophobe-bearing macromonomers

IN Jenkins, Richard Duane; Bassett, David Robinson; Lightfoot, Richard Hall; Boluk, Mehmet Yaman

PA Union Carbide Chemicals & Plastics Technology Corp., USA

SO U.S., 27 pp. Cont.-in-part of U.S. 5,461,100.

CODEN: USXXAM

DT Patent

LA English

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5681882	A	19971028	US 1993-65237	19930520
	US 5461100	A	19951024	US 1992-887643	19920529
PRAI	US 1992-887643		19920529		

AB An anti-icing/deicing fluid suitable for ground treatment of aircraft comprises, in admixt., a glycol, water, and a hydrophobe-bearing, alkali-swellable, macromonomer-contg. polymer as a thickener in an amt.

of

less than about 5 wt.%. Thickening occurs predominantly by assocn. among hydrophobe groups and may be enhanced by addn. of a surfactant or other materials which act as co-thickeners. Use of this thickened fluid does not adversely affect airfoil lift characteristics during takeoff, because the fluid exhibits shear thinning and readily flows off the aircraft surfaces when exposed to wind shear during the aircraft's takeoff run. Thus, an alkali-sol. thickener having Brookfield viscosity (at pH 9.0)

270

cps at 0.25%, 11,400 cps at 0.5%, and 103,600 cps at 0.75%, and .DELTA.H for viscosity of 0.5% 50/50 ethylene glycol/water soln. -3.3 KJ/mol, was prepd. from Et acrylate 55, methacrylic acid 40, and a macromonomer (m-TMI-terminated polyethylene glycol nonylphenol ether) 5 wt.%.

IT 198485-39-1P

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(thickener; glycol-based aircraft anti-icing fluids thickened by associative polymers contg. hydrophobe-bearing macromonomers)

RN 198485-39-1 CAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with 1,1-dimethylethyl 2-propenoate, ethyl 2-propenoate, .alpha.-[[[1-methyl-1-[3-(1-methylethenyl)phenyl]ethyl]amino]carbonyl]-.omega.-[2-(nonylphenoxy)-1-[(nonylphenoxy)methyl]ethoxy]poly(oxy-1,2-ethanediyl) and methyl 2-methyl-2-propenoate, graft (9CI) (CA INDEX NAME)

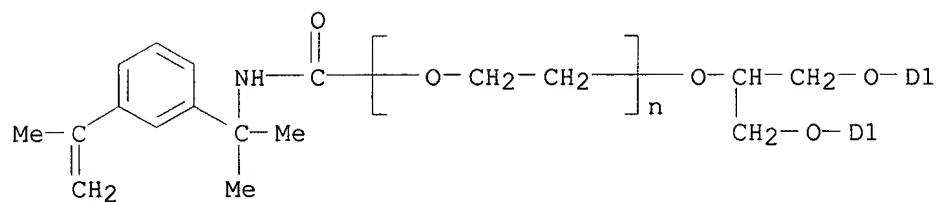
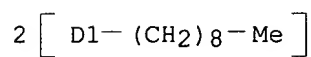
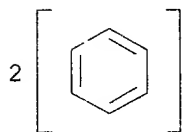
CM 1

CRN 156647-45-9

CMF (C2 H4 O)n C46 H67 N O4

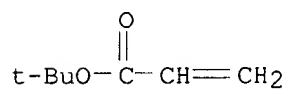
CCI IDS, PMS

CDES 8:ID



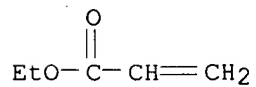
CM 2

CRN 1663-39-4
CMF C7 H12 O2



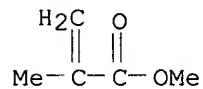
CM 3

CRN 140-88-5
CMF C5 H8 O2



CM 4

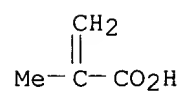
CRN 80-62-6
CMF C5 H8 O2



CM 5

CRN 79-41-4

CMF C4 H6 O2



L24 ANSWER 16 OF 46 CAPLUS COPYRIGHT 2000 ACS

AN 1997:501652 CAPLUS

DN 127:207034

TI Coating films for polypropylene bumpers

IN Kitamura, Toshiya; Suzuki, Toshimitsu; Sada, Toshihiko; Hara, Isamu;

Umeki, Satoru; Yamaguchi, Masahiro

PA Nippon Oil and Fats Co., Ltd., Japan; Nissan Motor Co., Ltd.

SO Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 09194771	A2	19970729	JP 1996-8070	19960122
AB	Title films are applied on title bumpers having a flexural modulus (FM)				
of					

3,900-6,000 kg/cm² and comprise primers and topcoats having an elongation (EN) of 30-100% and a tensile strength (TS) of 50-200 kg/cm². A polypropylene bumper with FM 5,100 kg/cm² was primed, coated with a silver

base compn., then with a clear compn. (giving films with EN 50% and TS 90 kg/cm²) contg. U-Van 22R and acrylic acid-tert-Bu methacrylate-cyclohexyl methacrylate-2-ethylhexyl methacrylate-HMDI-2-hydroxyethyl methacrylate-1,5-pentanediol-styrene copolymer, and baked at 140.degree. for 20 min to form a bumper showing good -30.degree. flexural strength.

IT 194666-55-2P 194666-56-3P

RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(topcoats with specific properties on polypropylene bumpers for low-temp. flexural strength)

RN 194666-55-2 CAPLUS

CN 2-Propenoic acid, 2-methyl-, 1,1-dimethylethyl ester, polymer with dihydro-2,5-furandione, [[[1,1-dimethylethyl)phenoxy]methyl]oxirane, dodecyl 2-methyl-2-propenoate, ethenylbenzene, 2-hydroxyethyl 2-methyl-2-propenoate and 2-propenoic acid (9CI) (CA INDEX NAME)

CM 1

CRN 26447-45-0

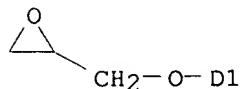
CMF C13 H18 O2

CCI IDS

CDES 8:ID



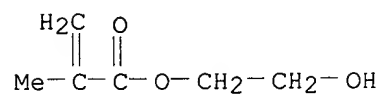
D1-Bu-t



CM 2

CRN 868-77-9

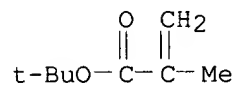
CMF C6 H10 O3



CM 3

CRN 585-07-9

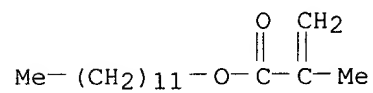
CMF C8 H14 O2



CM 4

CRN 142-90-5

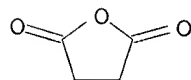
CMF C16 H30 O2



CM 5

CRN 108-30-5

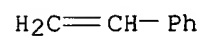
CMF C4 H4 O3



CM 6

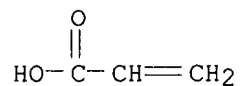
CRN 100-42-5

CMF C8 H8



CM 7

CRN 79-10-7
CMF C3 H4 O2



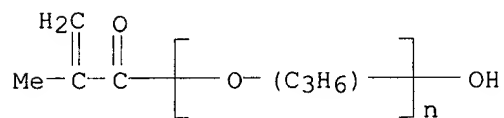
RN 194666-56-3 CAPLUS

CN 2-Propenoic acid, 2-methyl-, 1,1-dimethylethyl ester, polymer with dodecyl

2-methyl-2-propenoate, ethenylbenzene,
.alpha.-(2-methyl-1-oxo-2-propenyl)-
.omega.-hydroxypoly[oxy(methyl-1,2-ethanediyl)], 2-methylpropyl
2-methyl-2-propenoate and 2-propenoic acid (9CI) (CA INDEX NAME)

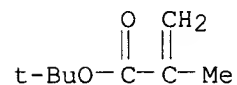
CM 1

CRN 39420-45-6
CMF (C3 H6 O)_n C4 H6 O2
CCI IDS, PMS
CDES 8:ID



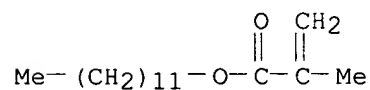
CM 2

CRN 585-07-9
CMF C8 H14 O2



CM 3

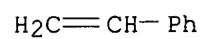
CRN 142-90-5
CMF C16 H30 O2



CM 4

CRN 100-42-5

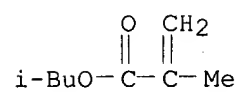
CMF C8 H8



CM 5

CRN 97-86-9

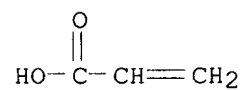
CMF C8 H14 O2



CM 6

CRN 79-10-7

CMF C3 H4 O2



L24 ANSWER 17 OF 46 CAPLUS COPYRIGHT 2000 ACS

AN 1997:429433 CAPLUS

DN 127:51559

TI Thermosetting or photocurable resin compositions with good light shielding, dispersibility, and water or alkali developability

IN Hirayama, Takayuki; Sato, Haruyoshi; Otsuki, Hiroshi; Ando, Masayuki

PA Nippon Oil Co., Ltd., Japan; Dainippon Printing Co., Ltd.

SO Jpn. Kokai Tokkyo Koho, 15 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 09124954	A2	19970513	JP 1995-287592	19951106
	US 5821277	A	19981013	US 1996-742499	19961101
PRAI	JP 1995-287592		19951106		

AB The title compns. useful in light shielding films for color filters for liq. crystal displays contain carbon materials obtained by a carbon-contg.

material with polymers having .gtoreq.1 reactive groups chosen from aziridine, oxazoline, N-hydroxyalkylamide, epoxy, thioepoxy, isocyanato, hydroxy, amino, vinyl and (meth)acrylic groups and also alkoxycarbonyl group R1R2R3COCO group (R1-3 H, C1-6 alkyl, C5-8 cycloalkyl, C6-16 aryl, at least two of R1-3 being org. groups) and thermosetting resin or photocurable compds. Carbon black was treated with an iso-Bu acrylate-Bu acrylate-Me methacrylate-tert-Bu acrylate-glycidyl methacrylate copolymer by kneading in iso-Pr alc., washed with diethylene glycol di-Me ether, stirred with 3N HCl at 80.degree. for 1 h, concd. in vacuo at 60.degree., and used in making black matrix together with carboxy and hydroxy group-contg. acrylic resin, Aron S-4030, M-66B, and Et Cellosolve acetate.

IT 191015-08-4P

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(thermosetting or photocurable resin compns. with good light shielding, dispersibility, and water or alkali developability)

RN 191015-08-4 CAPLUS

CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with butyl 2-propenoate, 4,5-dihydro-2-(1-methylethenyl)oxazole, 1,1-dimethylethyl 2-propenoate, ethenylbenzene, 2-methylpropyl 2-methyl-2-propenoate and .alpha.-(1-oxo-2-propenyl)-.omega.-(nonylphenoxy)poly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

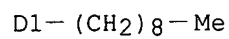
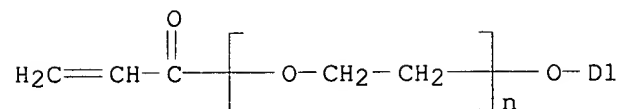
CM 1

CRN 50974-47-5

CMF (C2 H4 O)n C18 H26 O2

CCI IDS, PMS

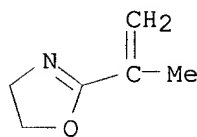
CDES 8:ID



CM 2

CRN 10471-78-0

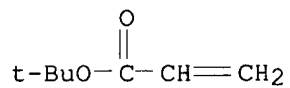
CMF C6 H9 N O



CM 3

CRN 1663-39-4

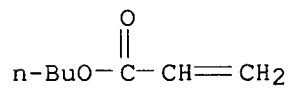
CMF C7 H12 O2



CM 4

CRN 141-32-2

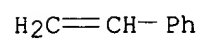
CMF C7 H12 O2



CM 5

CRN 100-42-5

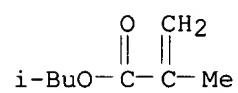
CMF C8 H8



CM 6

CRN 97-86-9

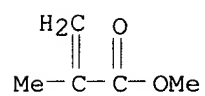
CMF C8 H14 O2



CM 7

CRN 80-62-6

CMF C5 H8 O2



L24 ANSWER 18 OF 46 CAPLUS COPYRIGHT 2000 ACS
 AN 1997:402418 CAPLUS
 DN 127:34646
 TI Hair cosmetics containing cationic (meth)acrylic resins
 IN Narasaki, Kanji; Kawaguchi, Shigeoki; Ouchi, Shinsuke
 PA Mitsubishi Chemical Industries Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 9 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 09100315	A2	19970415	JP 1995-259999	19951006

AB Hair cosmetics with good conditioning effect contain a cationic resin prep'd. from (1) 40-80 wt.% of CH₂:C(R₁)COAR₂NR₃R₄ (R₁ = H, Me; R₂ = C₁-4 alkylene; R₃, R₄ = C₁-4 alkyl; A = O, NH), 10-45 wt.% of CH₂:C(R₅)CO₂R₆ (R₅ = H, Me; R₆ = C₁-10 alkyl), 5-40 wt.% of CH₂:C(R₇)CO₂R₈ (R₇ = H, Me; R₈ = C₁₂-24 alkyl or alkenyl), 5-30 wt.% of CH₂:C(R₉)CO(D)mOR₁₀ (R₉ = H, Me; D = C₂-4 oxyalkylene; m = 3-50; R₁₀ = H, C₁-4 alkyl, phenyl), 0-25 wt.% of other monomers, and cationizing agent XB (X = Br, Cl, I, C₁-4 alkyl sulfate residue; B = C₁-12 alkyl, benzyl, residue of C₁-4 alkyl ester of C₁-3 aliph. carboxylic acid). The cationic resins have wt.-av. mol. wt. 5,000-500,000. Hair sprays and hair mousses contg. such

polymers

were formulated.

IT **189947-38-4P**
 RL: IMF (Industrial manufacture); MOA (Modifier or additive use); PREP (Preparation); USES (Uses)
 (cationic (meth)acrylic resins for hair cosmetics)
 RN 189947-38-4 CAPLUS
 CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with 1,1-dimethylethyl 2-methyl-2-propenoate, dodecyl 2-methyl-2-propenoate, ethyl 2-propenoate and .alpha.-(2-methyl-1-oxo-2-propenyl)-.omega.-methoxypoly(oxy-1,2-ethanediyl), comp'd. with 1-chlorobutane (9CI) (CA INDEX NAME)

CM 1

CRN 109-69-3

CMF C4 H9 Cl

H₃C-CH₂-CH₂-CH₂-Cl

CM 2

CRN 189947-37-3

CMF (C₁₆ H₃₀ O₂ . C₈ H₁₅ N O₂ . C₈ H₁₄ O₂ . C₅ H₈ O₂ . (C₂ H₄ O)_n C₅ H₈ O₂)_x

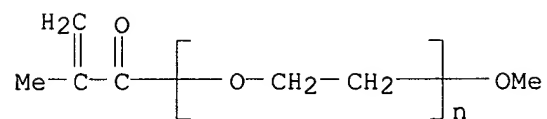
CCI PMS

CM 3

CRN 26915-72-0

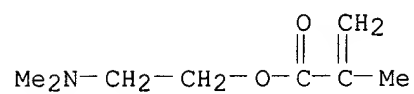
CMF (C₂ H₄ O)_n C₅ H₈ O₂

CCI PMS



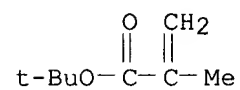
CM 4

CRN 2867-47-2
CMF C8 H15 N O2



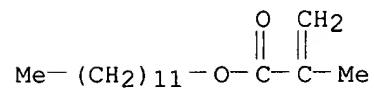
CM 5

CRN 585-07-9
CMF C8 H14 O2



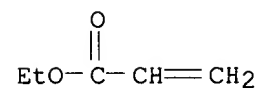
CM 6

CRN 142-90-5
CMF C16 H30 O2



CM 7

CRN 140-88-5
CMF C5 H8 O2



L24 ANSWER 19 OF 46 CAPLUS COPYRIGHT 2000 ACS

AN 1997:321043 CAPLUS

DN 127:19623

TI Acrylic epoxy resin powder coatings having good blocking resistance and yellowing resistance while baking

IN Ogoshi, Toshio; Kato, Yoshiaki; Kawamoto, Torimoto; Numa, Nobushige; Adachi, Naohito

PA Kansai Paint Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 09078010	A2	19970325	JP 1995-232407	19950911

AB The coatings contain (A) copolymers showing Tg 40-100.degree. and no.-av. mol. wt. 1000-15,000 obtained by radically polymg. unsatd. monomers with epoxy groups 25-50, styrenes 5-45, isobornyl acrylate (I) 10-50, and other radically polymerizable unsatd. monomers 0-60, followed by removing solvents and (B) crosslinking agents. Thus, styrene 15, I 37, Bu methacrylate 3, i-Bu methacrylate 9, glycidyl methacrylate 26, and methylglycidyl methacrylate 10 parts was copolymd. at 110.degree. in PhMe in the presence of 2,2'-azobis(2-methylbutyronitrile) and vacuum-distd. to give a copolymer, 100 parts of which was dry blended with 26 parts dodecanedioic acid, kneaded, cooled, crushed, and filtered to give a powder coating.

IT **189143-26-8P 189143-28-0P**
 RL: PNU (Preparation, unclassified); POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (isobornyl acrylate-contg. epoxy resin powder coatings having good blocking resistance and yellowing resistance while baking)

RN 189143-26-8 CAPLUS

CN Dodecanedioic acid, polymer with 1,1-dimethylethyl 2-methyl-2-propenoate, ethenylbenzene, (methyloxiranyl)methyl 2-methyl-2-propenoate, oxiranylmethyl 2-methyl-2-propenoate and exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl 2-propenoate (9CI) (CA INDEX NAME)

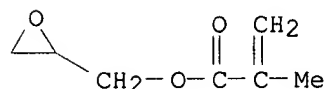
CM 1

CRN 117247-26-4

CMF C8 H12 O3

CCI IDS

CDES 8:ID,RING

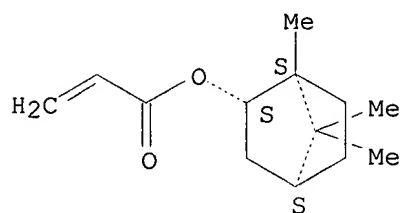


D1-Me

CM 2

CRN 5888-33-5
 CMF C13 H20 O2
 CDES 2:EXO

Relative stereochemistry.



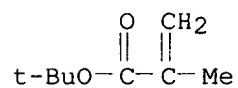
CM 3

CRN 693-23-2
 CMF C12 H22 O4

HO₂C-(CH₂)₁₀-CO₂H

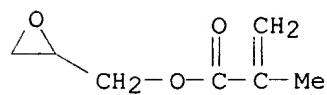
CM 4

CRN 585-07-9
 CMF C8 H14 O2



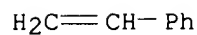
CM 5

CRN 106-91-2
 CMF C7 H10 O3



CM 6

CRN 100-42-5
 CMF C8 H8



RN 189143-28-0 CAPLUS

CN Dodecanedioic acid, polymer with 1,1-dimethylethyl 2-methyl-2-propenoate, ethenylbenzene, (methyloxiranyl)methyl 2-methyl-2-propenoate, 2-methylpropyl 2-methyl-2-propenoate, oxiranylmethyl 2-methyl-2-propenoate and exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl 2-propenoate (9CI) (CA INDEX NAME)

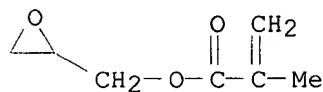
CM 1

CRN 117247-26-4

CMF C8 H12 O3

CCI IDS

CDES 8:ID,RING



D1-Me

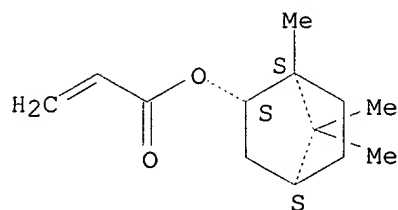
CM 2

CRN 5888-33-5

CMF C13 H20 O2

CDES 2:EXO

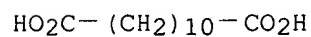
Relative stereochemistry.



CM 3

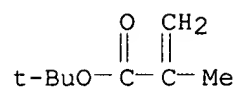
CRN 693-23-2

CMF C12 H22 O4



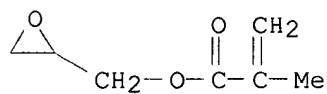
CM 4

CRN 585-07-9
CMF C8 H14 O2



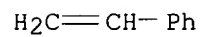
CM 5

CRN 106-91-2
CMF C7 H10 O3



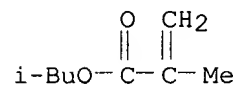
CM 6

CRN 100-42-5
CMF C8 H8



CM 7

CRN 97-86-9
CMF C8 H14 O2



L24 ANSWER 20 OF 46 CAPLUS COPYRIGHT 2000 ACS

AN 1997:317593 CAPLUS

DN 126:294679

TI Thermosetting resin compositions for coatings with excellent storability, low-temperature curability, acid resistance and scratch resistance

IN Kido, Koichiro; Hotsuta, Kazuhiko; Kato, Takeshi; Iwamoto, Akio; Kimura, Isao; Kodama, Shunichi; Myazaki, Nobuyuki; Sasao, Yasuyuki

PA Mitsubishi Rayon Co, Japan; Asahi Glass Co Ltd

SO Jpn. Kokai Tokkyo Koho, 16 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE /
PI	JP 09059557	A2	19970304	JP 1995-230675	19950817
AB	The title compns. contain (A) .alpha.,.beta.-dicarboxylic acid anhydride monoester (250-3000 g/equiv.)-(meth)acrylic copolymers, (B) epoxy and hydroxy group-contg. (meth)acrylic copolymers (epoxy equiv. 200-700 g/equiv., OH equiv. 400-3000 g/equiv.), and (C) epoxy and hydroxy group-contg. fluoroolefin copolymers of epoxy equiv. 300-2000 g/equiv.				

and

hydroxy equiv. 280-2000 g/equiv.. A component A was prepd. from styrene 20, cyclohexyl methacrylate 20, lauryl methacrylate 20, tridecyl methacrylate 4, 2-hydroxyethyl methacrylate 20, monobutyl fumarate 6, and methacrylic acid 10 parts; a component B from styrene 20, 2-ethylhexyl methacrylate 15, 4-hydroxybutyl acrylate 20, and glycidyl methacrylate 45 parts; and a component C from chlorotrifluoroethylene 50, cyclohexyl

vinyl

ether 10, hydroxybutyl vinyl ether 20, and glycidyl vinyl ether 20 parts and used in 64:24:12 ratio for baked coating (140.degree., 30 min in wet-on-wet).

IT 189043-66-1P 189044-03-9P

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(thermosetting resin compns. for coatings with excellent storability, low-temp. curability, acid resistance and scratch resistance)

RN 189043-66-1 CAPLUS

CN Butanedioic acid, mono[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl] ester, polymer with chlorotrifluoroethene, cyclohexyl 2-methyl-2-propenoate, 1,1-dimethylethyl 2-methyl-2-propenoate, ethenylbenzene, (ethenyloxy)butanol, (ethenyloxy)cyclohexane,

[(ethenyloxy)methyl]oxirane,

2-ethylhexyl 2-methyl-2-propenoate, 4-hydroxybutyl 2-propenoate, (Z)-methyl hydrogen 2-butenedioate, 2-methyl-2-propenoic acid and oxiranylmethyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

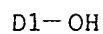
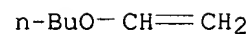
CM 1

CRN 42978-84-7

CMF C6 H12 O2

CCI IDS

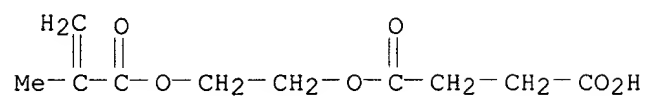
CDES *



CM 2

CRN 20882-04-6

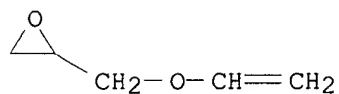
CMF C10 H14 O6



CM 3

CRN 3678-15-7

CMF C5 H8 O2



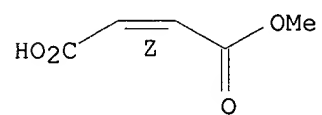
CM 4

CRN 3052-50-4

CMF C5 H6 O4

CDES 2:2

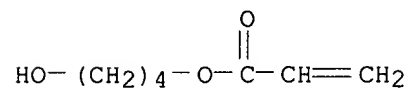
Double bond geometry as shown.



CM 5

CRN 2478-10-6

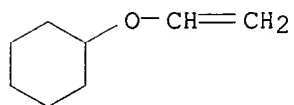
CMF C7 H12 O3



CM 6

CRN 2182-55-0

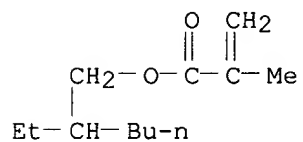
CMF C8 H14 O



CM 7

CRN 688-84-6

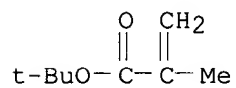
CMF C12 H22 O2



CM 8

CRN 585-07-9

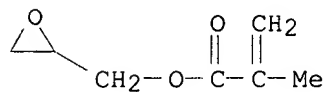
CMF C8 H14 O2



CM 9

CRN 106-91-2

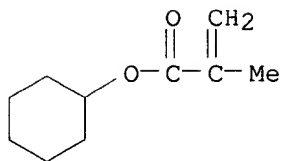
CMF C7 H10 O3



CM 10

CRN 101-43-9

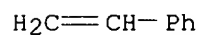
CMF C10 H16 O2



CM 11

CRN 100-42-5

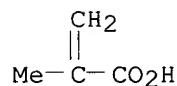
CMF C8 H8



CM 12

CRN 79-41-4

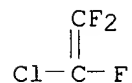
CMF C4 H6 O2



CM 13

CRN 79-38-9

CMF C2 Cl F3



RN 189044-03-9 CAPLUS

CN Butanedioic acid, mono[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl] ester, polymer with cyclohexyl 2-methyl-2-propenoate, 1,1-dimethylethyl 2-methyl-2-propenoate, dodecyl 2-methyl-2-propenoate, ethenylbenzene, (ethenyloxy)butanol, ethoxyethene, 2-ethylhexyl 2-methyl-2-propenoate, 2-ethylhexyl 2-propenoate, 2,5-furandione, 4-hydroxybutyl 2-propenoate, 2-methyl-2-propenoic acid, oxiranylmethyl 2-methyl-2-propenoate, 2-(2-propenyloxy)ethanol, [(2-propenyloxy)methyl]oxirane and tetrafluoroethene (9CI) (CA INDEX NAME)

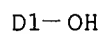
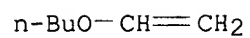
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CRN 42978-84-7

CMF C6 H12 O2

CCI IDS

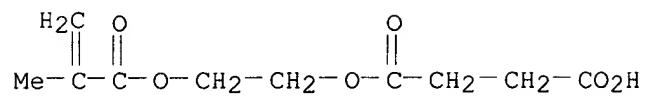
CDES *



CM 2

CRN 20882-04-6

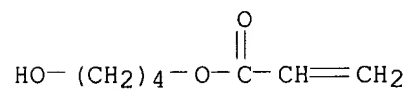
CMF C10 H14 O6



CM 3

CRN 2478-10-6

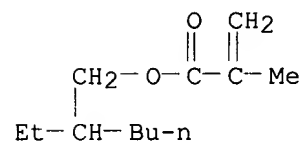
CMF C7 H12 O3



CM 4

CRN 688-84-6

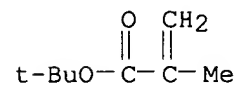
CMF C12 H22 O2



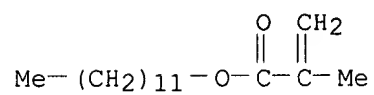
CM 5

CRN 585-07-9

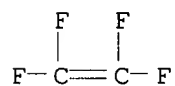
CMF C8 H14 O2



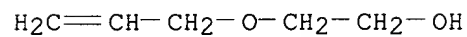
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CRN 142-90-5
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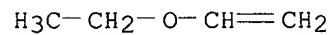
CM 7

CRN 116-14-3
CMF C2 F4

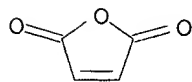
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CM 9

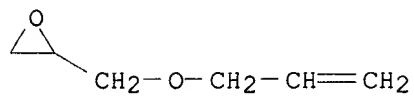
CRN 109-92-2
CMF C4 H8 O

CM 10

CRN 108-31-6
CMF C4 H2 O3

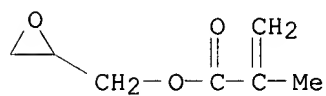
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CRN 106-92-3
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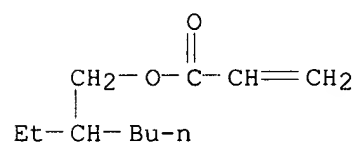
CM 12

CRN 106-91-2
CMF C7 H10 O3



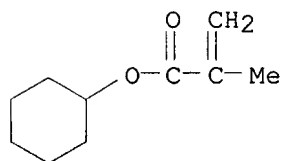
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CRN 103-11-7
CMF C11 H20 O2



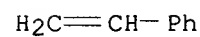
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CRN 101-43-9
CMF C10 H16 O2



CM 15

CRN 100-42-5
CMF C8 H8



WILLIS

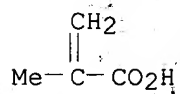
09/382708

Page 80

CM 16

CRN 79-41-4

CMF C4 H6 O2



L24 ANSWER 21 OF 46 CAPLUS COPYRIGHT 2000 ACS

AN 1997:253994 CAPLUS

DN 126:239708

TI Thermosetting composition suitable for glossy clear topcoats with excellent acid, water, weather, thermal shock, and scratch resistance

IN Iwamoto, Akio; Kato, Takeshi; Fujie, Shinobu; Hotta, Kazuhiko; Iwase, Kunio; Takeuchi, Hiroshi

PA Mitsubishi Rayon Co., Ltd., Japan; Iwamoto, Akio; Kato, Takeshi; Fujie, Shinobu; Hotta, Kazuhiko; Iwase, Kunio; Takeuchi, Hiroshi

SO PCT Int. Appl., 48 pp.

CODEN: PIXXD2

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9706216	A1	19970220	WO 1995-JP1604	19950810
	W: CA, US				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	CA 2228628	AA	19970220	CA 1995-2228628	19950810
	EP 844285	A1	19980527	EP 1995-928017	19950810
	R: DE, GB				
	JP 09111153	A2	19970428	JP 1996-211211	19960809
	JP 09131563	A2	19970520	JP 1996-211307	19960809
	US 6037416	A	20000314	US 1998-11062	19980210

PRAI WO 1995-JP1604 19950810

AB A thermosetting covering compn. comprises an acrylic copolymer contg. vinyl monomer units each having an .alpha., .beta.-dicarboxylic acid anhydride group and vinyl monomer units each having a dicarboxylic monoester group, the total content of both the monomer units being 5-40% and the content of the former monomer units being 0.3-5%, and an epoxidized acrylic copolymer. A solvent-based compn. comprised Me methacrylate-tert-Bu methacrylate-2-ethylhexyl acrylate-maleic anhydride copolymer Me ester (monomethyl maleate unit content 23.9%) 100, Me methacrylate-Bu methacrylate-2-ethylhexyl acrylate-2-hydroxyethyl methacrylate-glycidyl methacrylate copolymer 90, Modaflow 0.2, benzyltributylammonium chloride, Tinuvin 900 2.0, and Sanol 440 2.0 parts.

IT 188364-03-6P 188364-04-7P 188364-07-0P

RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(thermosetting acrylic compn. suitable for glossy clear topcoats with excellent acid, water, weather, thermal shock, and scratch resistance)

RN 188364-03-6 CAPLUS

CN 2-Propenoic acid, 2-methyl-, butyl ester, polymer with 1,1-dimethylethyl 2-methyl-2-propenoate, 2-ethylhexyl 2-propenoate, 2,5-furandione, 2,2'-[1,6-hexanediylbis(oxymethylene)]bis[oxirane], 4-hydroxybutyl 2-propenoate, methyl 2-methyl-2-propenoate and oxiranylmethyl 2-methyl-2-propenoate, methyl ester (9CI) (CA INDEX NAME)

CM 1

CRN 67-56-1

CMF C H4 O

H3C-OH

CM 2

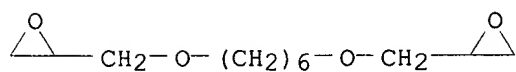
CRN 189176-82-7

H10 CMF (C12 H22 O4 . C11 H20 O2 . C8 H14 O2 . C8 H14 O2 . C7 H12 O3 . C7
 O3 . C5 H8 O2 . C4 H2 O3)x
 CCI PMS

CM 3

CRN 16096-31-4

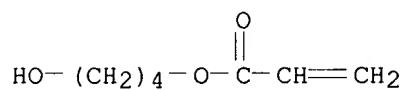
CMF C12 H22 O4



CM 4

CRN 2478-10-6

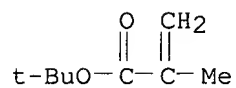
CMF C7 H12 O3



CM 5

CRN 585-07-9

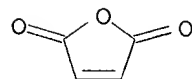
CMF C8 H14 O2



CM 6

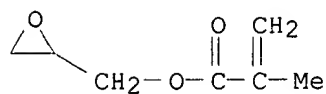
CRN 108-31-6

CMF C4 H2 O3



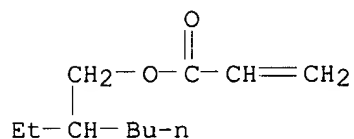
CM 7

CRN 106-91-2
CMF C7 H10 O3



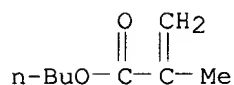
CM 8

CRN 103-11-7
CMF C11 H20 O2



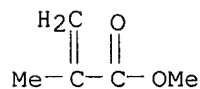
CM 9

CRN 97-88-1
CMF C8 H14 O2



CM 10

CRN 80-62-6
CMF C5 H8 O2



RN 188364-04-7 CAPLUS

CN 1,3-Benzenedicarboxylic acid, polymer with butyl 2-methyl-2-propenoate,
1,1-dimethylethyl 2-methyl-2-propenoate, 2-ethylhexyl 2-propenoate,
2-ethyl-2-(hydroxymethyl)-1,3-propanediol, 2,5-furandione,
1,6-hexanediol,
2-hydroxyethyl 2-methyl-2-propenoate, methyl 2-methyl-2-propenoate,
oxiranylmethyl tert-decanoate and oxiranylmethyl 2-methyl-2-propenoate,
methyl ester (9CI) (CA INDEX NAME)

CM 1

CRN 67-56-1

CMF C H4 O

H₃C—OH

CM 2

CRN 188307-56-4

CMF (C13 H24 O3 . C11 H20 O2 . C8 H14 O2 . C8 H14 O2 . C8 H6 O4 . C7 H10 O3 . C6 H14 O3 . C6 H14 O2 . C6 H10 O3 . C5 H8 O2 . C4 H2 O3)x

CCI PMS

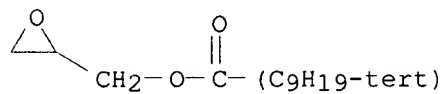
CM 3

CRN 71206-09-2

CMF C13 H24 O3

CCI IDS

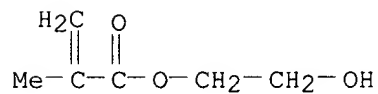
CDES 8:ID,TERT



CM 4

CRN 868-77-9

CMF C6 H10 O3



CM 5

CRN 629-11-8

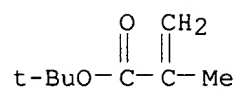
CMF C6 H14 O2

HO—(CH₂)₆—OH

CM 6

CRN 585-07-9

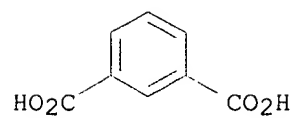
CMF C8 H14 O2



CM 7

CRN 121-91-5

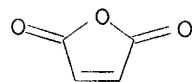
CMF C8 H6 O4



CM 8

CRN 108-31-6

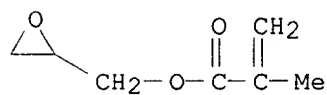
CMF C4 H2 O3



CM 9

CRN 106-91-2

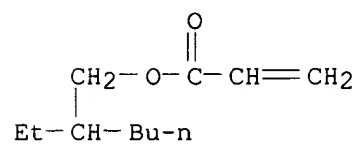
CMF C7 H10 O3



CM 10

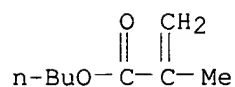
CRN 103-11-7

CMF C11 H20 O2



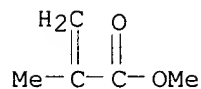
CM 11

CRN 97-88-1
CMF C8 H14 O2



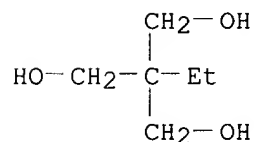
CM 12

CRN 80-62-6
CMF C5 H8 O2



CM 13

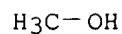
CRN 77-99-6
CMF C6 H14 O3



RN 188364-07-0 CAPLUS
CN 2-Propenoic acid, 2-methyl-, butyl ester, polymer with 1,1-dimethylethyl 2-methyl-2-propenoate, 2-ethylhexyl 2-propenoate, 2,5-furandione, 2,2'-[1,6-hexanediylbis(oxymethylene)]bis[oxirane], 2-hydroxyethyl 2-methyl-2-propenoate, methyl 2-methyl-2-propenoate and oxiranylmethyl 2-methyl-2-propenoate, methyl ester (9CI) (CA INDEX NAME)

CM 1

CRN 67-56-1
CMF C H4 O



CM 2

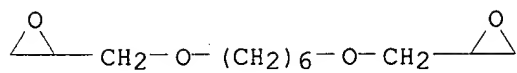
CRN 188307-64-4
CMF (C12 H22 O4 . C11 H20 O2 . C8 H14 O2 . C8 H14 O2 . C7 H10 O3 . C6 H10 O3 . C5 H8 O2 . C4 H2 O3)x

CCI PMS

CM 3

CRN 16096-31-4

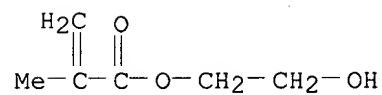
CMF C12 H22 O4



CM 4

CRN 868-77-9

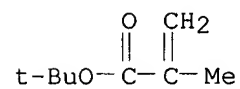
CMF C6 H10 O3



CM 5

CRN 585-07-9

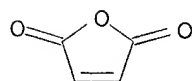
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CM 6

CRN 108-31-6

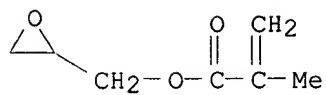
CMF C4 H2 O3



CM 7

CRN 106-91-2

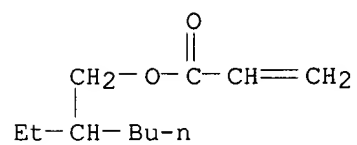
CMF C7 H10 O3



CM 8

CRN 103-11-7

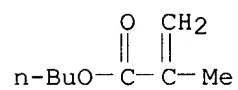
CMF C11 H20 O2



CM 9

CRN 97-88-1

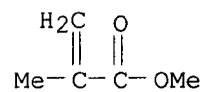
CMF C8 H14 O2



CM 10

CRN 80-62-6

CMF C5 H8 O2



L24 ANSWER 22 OF 46 CAPLUS COPYRIGHT 2000 ACS

AN 1997:247419 CAPLUS

DN 126:226570

TI Ethoxysilyl-containing acrylic emulsions with excellent storage stability

IN Oohata, Hiroyuki; Saga, Hiroshi

PA Nisshin Kagaku Kogyo Kk, Japan

SO Jpn. Kokai Tokkyo Koho, 9 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 09025385	A2	19970128	JP 1995-176193	19950712

AB Water-resistant coating materials comprise copolymers of av. mol. wt. γ -toreq.50,000 prepd. by polymn. of C1-18 alkyl (meth)acrylates 50-99, γ -(meth)acryloxypropylmethyldiethoxysilane and/or γ -(meth)acryloxypropyltriethoxysilane 1-20, and comonomers 3-30% in the presence of reactive surfactants. Thus, Bu acrylate 46, Me methacrylate 37, styrene 10, and γ -methacryloxypropyltriethoxysilane 7 parts were polymd. at 60.degree. in H2O in the presence of Aqualon HS 10, Aqualon RN 20, and a peroxide to give a 50.5% solids emulsion (av. mol. wt. 27 .times. 104) showing min. film-forming temp. 19.degree. and forming a good water resistant coating after a 6-mo storage.

IT **188266-46-8P**
 RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (ethoxysilyl-contg. acrylic emulsions with excellent storage stability for water-resistant coatings)

RN 188266-46-8 CAPLUS

CN 2-Propenoic acid, 2-methyl-, butyl ester, polymer with butyl 2-propenoate,
 3-(diethoxymethylsilyl)propyl 2-propenoate, 1,1-dimethylethyl 2-methyl-2-propenoate, ethenylbenzene, 2-hydroxyethyl 2-methyl-2-propenoate, methyl 2-methyl-2-propenoate, .alpha.-[1-
 [(nonylphenoxy)methyl]-2-(2-propenyloxy)ethyl]-.omega.-hydroxypoly(oxy-1,2-ethanediyl) and .alpha.-sulfo-.omega.-[1-[(nonylphenoxy)methyl]-2-(2-propenyloxy)ethoxy]poly(oxy-1,2-ethanediyl) ammonium salt (9CI) (CA

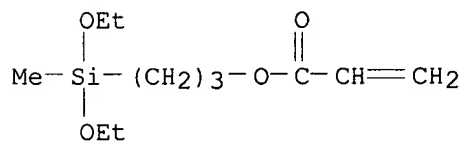
INDEX

NAME)

CM 1

CRN 146666-71-9

CMF C11 H22 O4 Si

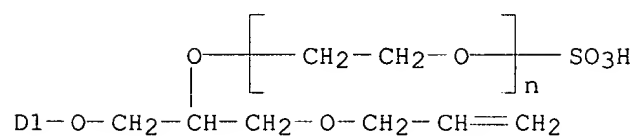


CM 2

CRN 113405-85-9
 CMF (C2 H4 O)_n C21 H34 O6 S . H3 N
 CCI IDS, PMS
 CDES 8:ID



D1- (CH₂)₈-Me



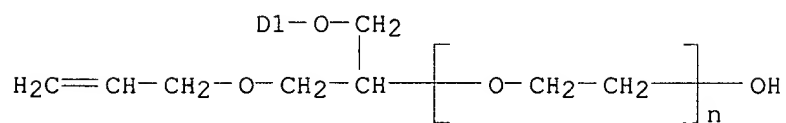
● NH₃

CM 3

CRN 111144-60-6
 CMF (C2 H4 O)_n C21 H34 O3
 CCI IDS, PMS
 CDES 8:ID

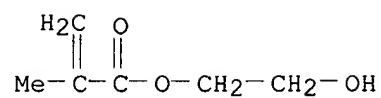


D1- (CH₂)₈-Me

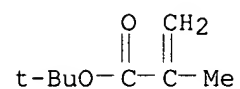


CM 4

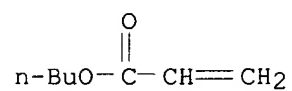
CRN 868-77-9
 CMF C6 H10 O3



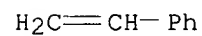
CM 5

CRN 585-07-9
CMF C8 H14 O2

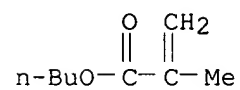
CM 6

CRN 141-32-2
CMF C7 H12 O2

CM 7

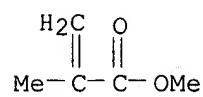
CRN 100-42-5
CMF C8 H8

CM 8

CRN 97-88-1
CMF C8 H14 O2

CM 9

CRN 80-62-6
CMF C5 H8 O2



L24 ANSWER 23 OF 46 CAPLUS COPYRIGHT 2000 ACS

AN 1997:174973 CAPLUS

DN 126:172399

TI Manufacture of electrically insulating carbonaceous materials

IN Hirayama, Takayuki; Morita, Yoshifumi; Sato, Haruyoshi; Otsuki, Yutaka

PA Nippon Oil Company, Limited, Japan

SO Eur. Pat. Appl., 10 pp.

CODEN: EPXXDW

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 753548	A2	19970115	EP 1996-304743	19960627
	EP 753548	A3	19980610		
	R: DE, FR, GB				
	JP 09012920	A2	19970114	JP 1995-162303	19950628
	US 5811475	A	19980922	US 1996-669586	19960624

PRAI JP 1995-162303 19950628

AB The title process consists of mixing a carbon material (e.g., Special Black 4) with a polymer having .gtoreq.1 reactive group selected from aziridine, oxazoline, N-hydroxyalkylamido, epoxy, thioepoxy, isocyanato, hydroxyl, amino, vinyl, (meth)acryl, and/or an alkoxycarbonyl group (e.g.,

Bu acrylate-tert-Bu acrylate-glycidyl methacrylate-hydroxyethyl acrylate-iso-Bu acrylate-Me methacrylate copolymer, Bu acrylate-tert-Bu acrylate-hydroxyethyl acrylate-iso-Bu methacrylate-iso-Pr oxazoline-Me methacrylate-nonylphenoxypolyethylene glycol acrylate copolymer) in solvents, kneading, and removing the solvents. The carbonaceous

materials

are useful for elec. insulating inks, films (e.g., of PMMA), etc.

IT **187146-73-2**, Butyl acrylate-tert-butyl acrylate-hydroxyethyl acrylate-isobutyl methacrylate-isopropyl oxazoline-methyl methacrylate-nonylphenoxypolyethylene glycol acrylate copolymer
 RL: PEP (Physical, engineering or chemical process); POF (Polymer in formulation); TEM (Technical or engineered material use); PROC (Process); USES (Uses)

(manuf. of elec. insulating carbonaceous materials)

RN 187146-73-2 CAPLUS

CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with butyl 2-propenoate, 4,5-dihydro-2-(1-methylethenyl)oxazole, 1,1-dimethylethyl 2-propenoate, 2-hydroxyethyl 2-propenoate, 2-methylpropyl 2-methyl-2-propenoate and .alpha.-(1-oxo-2-propenyl)-.omega.-(nonylphenoxy)poly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

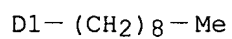
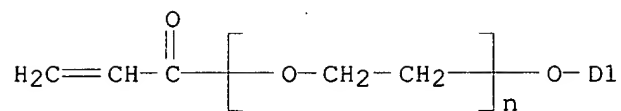
CM 1

CRN 50974-47-5

CMF (C2 H4 O)n C18 H26 O2

CCI IDS, PMS

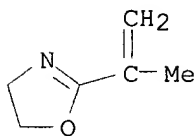
CDES 8:ID



CM 2

CRN 10471-78-0

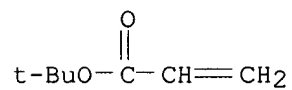
CMF C6 H9 N O



CM 3

CRN 1663-39-4

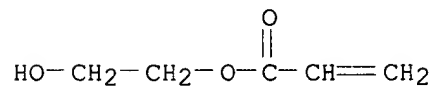
CMF C7 H12 O2



CM 4

CRN 818-61-1

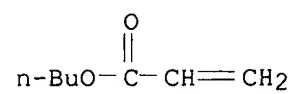
CMF C5 H8 O3



CM 5

CRN 141-32-2

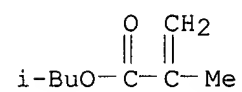
CMF C7 H12 O2



CM 6

CRN 97-86-9

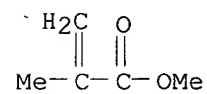
CMF C8 H14 O2



CM 7

CRN 80-62-6

CMF C5 H8 O2



L24 ANSWER 24 OF 46 CAPLUS COPYRIGHT 2000 ACS

AN 1996:501378 CAPLUS

DN 125:171045

TI Curable acrylic siloxane coatings with soil and weather resistance

IN Oda, Hiroshi; Oosugi, Koji; Tanabe, Hisanori; Obata, Jusaku

PA Nippon Paint Co Ltd, Japan

SO Jpn. Kokai Tokkyo Koho, 26 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 08120224	A2	19960514	JP 1994-282824	19941021

AB Title coatings contain crosslinkers and resins prepd. from
 $Q(R_2SiO)_b(RXSiO)_c(RYSiO)_dQ$ [$Q = XaR_3-aSiO$; $R = C1-6$ alkyl, Ph; $X =$
polyoxyethylene-contg. hydrocarbyl; $Y = 3-(meth)acryloxypropyl$; $a = 0-1$;
 $b = 1-20$; $c = 0-10$; $d = 1-3$, with $a + c = 1-10$]. A xylene soln. contg. C
3062 (crosslinker) and a graft copolymer from (A) tert-Bu methacrylate,
(B) 2-hydroxyethyl methacrylate, and (C) a block copolymer from Nissan
Uniox A 450 (polyoxyethylene monoallyl ether) and
dimethylsilyl-terminated
polydimethylmethyl(3-methacryloxypropyl)siloxane was spread on a glass
plate and cured at room temp. over 1 wk to form a surface showing water
contact angle 40.degree., good soil resistance over 2 yr at outdoor, and
90% gloss retention after 2,000 h under sunshine weatherometer.

IT 179992-45-1P 179992-48-4P 179992-50-8P
180467-90-7P 180467-91-8P 180467-92-9P
180467-93-0P 180684-68-8P 180684-70-2P
RL: IMF (Industrial manufacture); TEM (Technical or engineered material
use); PREP (Preparation); USES (Uses)
(crosslinker-contg. compns. for room-temp.-curable coatings with
soil/water/weather resistance)

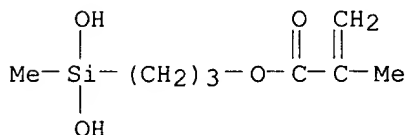
RN 179992-45-1 CAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, polymer with
3-(dihydroxymethylsilyl)propyl 2-methyl-2-propenoate, 1,1-dimethylethyl
2-methyl-2-propenoate, dimethylsilanediol, diphenylsilanediol,
2-ethylhexyl 2-methyl-2-propenoate and .alpha.-2-propenyl-.omega.-
hydroxypoly(oxy-1,2-ethanediyl), graft (9CI) (CA INDEX NAME)

CM 1

CRN 156787-79-0

CMF C8 H16 O4 Si

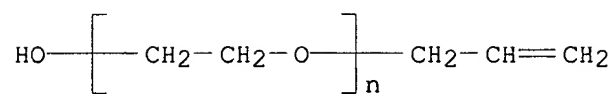


CM 2

CRN 27274-31-3

CMF (C2 H4 O)_n C3 H6 O

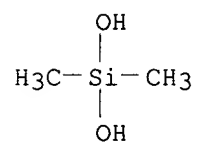
CCI PMS



CM 3

CRN 1066-42-8

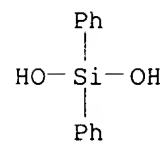
CMF C2 H8 O2 Si



CM 4

CRN 947-42-2

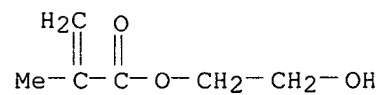
CMF C12 H12 O2 Si



CM 5

CRN 868-77-9

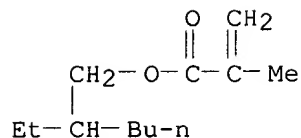
CMF C6 H10 O3



CM 6

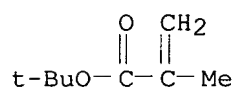
CRN 688-84-6

CMF C12 H22 O2



CM 7

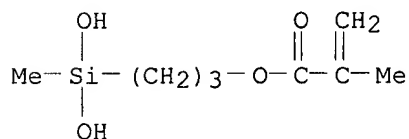
CRN 585-07-9
 CMF C8 H14 O2



RN 179992-48-4 CAPLUS
 CN 2-Propenoic acid, 2-methyl-, 3-(dihydroxymethylsilyl)propyl ester,
 polymer
 with 1,1-dimethylethyl 2-methyl-2-propenoate, dimethylsilanediol,
 2-ethylhexyl 2-methyl-2-propenoate, 2-hydroxyethyl 2-methyl-2-propenoate
 and .alpha.-2-propenyl-.omega.-hydroxypoly(oxy-1,2-ethanediyl) (9CI) (CA
 INDEX NAME)

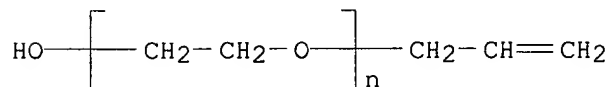
CM 1

CRN 156787-79-0
 CMF C8 H16 O4 Si



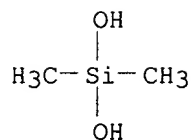
CM 2

CRN 27274-31-3
 CMF (C2 H4 O)_n C3 H6 O
 CCI PMS



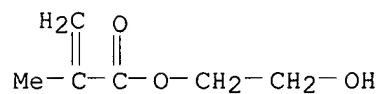
CM 3

CRN 1066-42-8
 CMF C2 H8 O2 Si



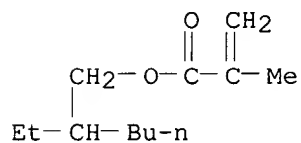
CM 4

CRN 868-77-9
CMF C6 H10 O3



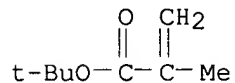
CM 5

CRN 688-84-6
CMF C12 H22 O2



CM 6

CRN 585-07-9
CMF C8 H14 O2



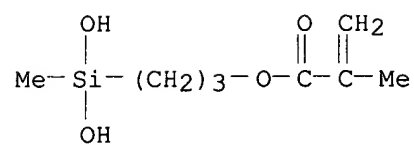
RN 179992-50-8 CAPLUS

CN 2-Propenoic acid, 2-methyl-, 3-(dihydroxymethylsilyl)propyl ester,
polymer

with 1,1-dimethylethyl 2-methyl-2-propenoate, dimethylsilanediol,
(4-ethenylphenyl)trimethoxysilane, 2-ethylhexyl 2-methyl-2-propenoate and
.alpha.-2-propenyl-.omega.-hydroxypoly(oxy-1,2-ethanediyl), graft (9CI)
(CA INDEX NAME)

CM 1

CRN 156787-79-0
CMF C8 H16 O4 Si

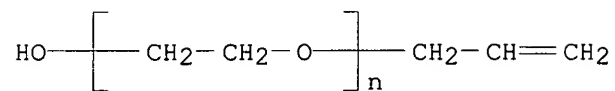


CM 2

CRN 27274-31-3

CMF (C2 H4 O)n C3 H6 O

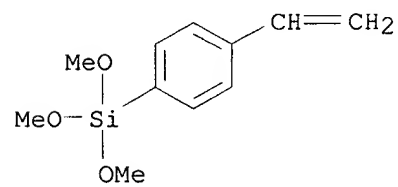
CCI PMS



CM 3

CRN 18001-13-3

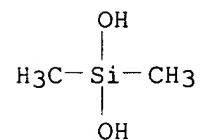
CMF C11 H16 O3 Si



CM 4

CRN 1066-42-8

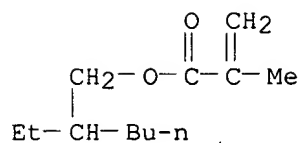
CMF C2 H8 O2 Si



CM 5

CRN 688-84-6

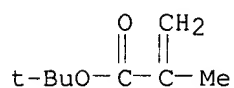
CMF C12 H22 O2



CM 6

CRN 585-07-9

CMF C8 H14 O2



RN 180467-90-7 CAPLUS

CN 2-Propenoic acid, 2-methyl-, 3-(dihydroxymethylsilyl)propyl ester, polymer

with 1,1-dimethylethyl 2-methyl-2-propenoate, dimethylsilanediol, diphenylsilanediol, 2-ethylhexyl 2-methyl-2-propenoate, 2-hydroxyethyl 2-methyl-2-propenoate and .alpha.-methyl-.omega.-(2-propenyloxy)poly(oxy-1,2-ethanediyl), hydrogen 1,2-cyclohexanedicarboxylate, sodium salt,

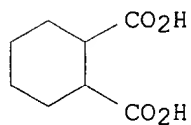
graft

(9CI) (CA INDEX NAME)

CM 1

CRN 1687-30-5

CMF C8 H12 O4



CM 2

CRN 179992-45-1

CMF (C12 H22 O2 . C12 H12 O2 Si . C8 H16 O4 Si . C8 H14 O2 . C6 H10 O3 . C2 H8 O2 Si . (C2 H4 O)n C3 H6 O)x

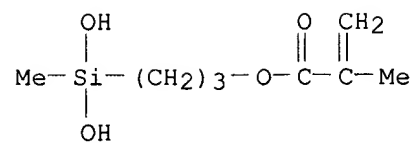
CCI PMS

CDES 8:PM,GRAFT

CM 3

CRN 156787-79-0

CMF C8 H16 O4 Si

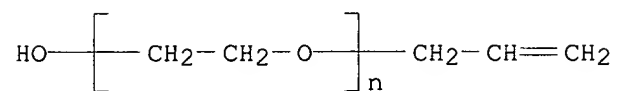


CM 4

CRN 27274-31-3

CMF (C2 H4 O)_n C3 H6 O

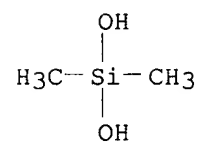
CCI PMS



CM 5

CRN 1066-42-8

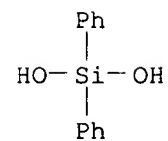
CMF C2 H8 O2 Si



CM 6

CRN 947-42-2

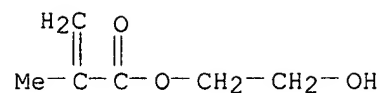
CMF C12 H12 O2 Si



CM 7

CRN 868-77-9

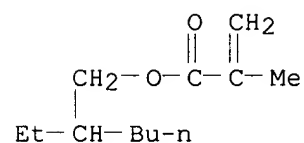
CMF C6 H10 O3



CM 8

CRN 688-84-6

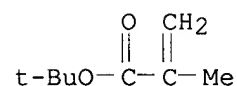
CMF C12 H22 O2



CM 9

CRN 585-07-9

CMF C8 H14 O2



RN 180467-91-8 CAPLUS

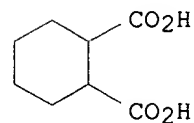
CN 2-Propenoic acid, 2-methyl-, 3-(dihydroxymethylsilyl)propyl ester,
polymer

with 1,1-dimethylethyl 2-methyl-2-propenoate, dimethylsilanediol,
2-ethylhexyl 2-methyl-2-propenoate, 2-hydroxyethyl 2-methyl-2-propenoate
and .alpha.-methyl-.omega.-(2-propenyloxy)poly(oxy-1,2-ethanediyl),
hydrogen 1,2-cyclohexanedicarboxylate, potassium salt, graft (9CI) (CA
INDEX NAME)

CM 1

CRN 1687-30-5

CMF C8 H12 O4



CM 2

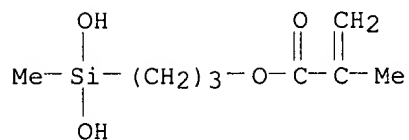
CRN 179992-47-3

CMF (C12 H22 O2 . C8 H16 O4 Si . C8 H14 O2 . C6 H10 O3 . C2 H8 O2 Si .

(C2 H4 O)n C3 H6 O)x
 CCI PMS
 CDES 8:PM, GRAFT

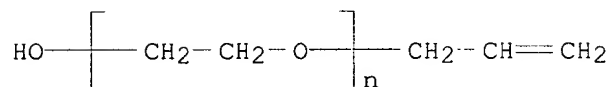
CM 3

CRN 156787-79-0
 CMF C8 H16 O4 Si



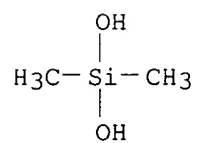
CM 4

CRN 27274-31-3
 CMF (C2 H4 O)n C3 H6 O
 CCI PMS



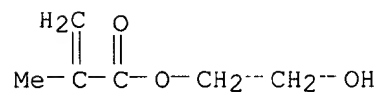
CM 5

CRN 1066-42-8
 CMF C2 H8 O2 Si



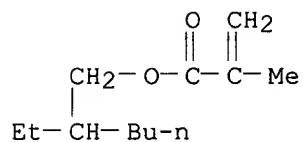
CM 6

CRN 868-77-9
 CMF C6 H10 O3



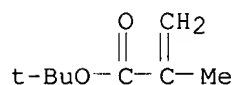
CM 7

CRN 688-84-6
CMF C12 H22 O2



CM 8

CRN 585-07-9
CMF C8 H14 O2



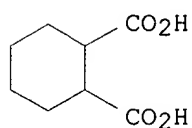
RN 180467-92-9 CAPLUS

CN 2-Propenoic acid, 2-methyl-, 3-(dihydroxymethylsilyl)propyl ester,
polymer

with 1,1-dimethylethyl 2-methyl-2-propenoate, dimethylsilanediol,
2-ethylhexyl 2-methyl-2-propenoate, 2-hydroxyethyl 2-methyl-2-propenoate
and .alpha.-2-propenyl-.omega.-hydroxypoly(oxy-1,2-ethanediyl), hydrogen
1,2-cyclohexanedicarboxylate, lithium salt, graft (9CI) (CA INDEX NAME)

CM 1

CRN 1687-30-5
CMF C8 H12 O4



CM 2

CRN 179992-47-3

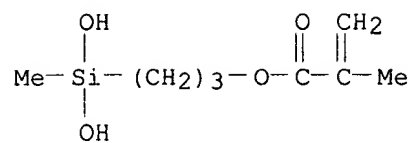
CMF (C12 H22 O2 . C8 H16 O4 Si . C8 H14 O2 . C6 H10 O3 . C2 H8 O2 Si .
(C2 H4 O)n C3 H6 O)x

CCI PMS

CDES 8:PM,GRAFT

CM 3

CRN 156787-79-0
CMF C8 H16 O4 Si

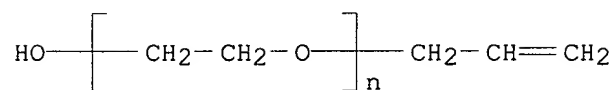


CM 4

CRN 27274-31-3

CMF (C2 H4 O)n C3 H6 O

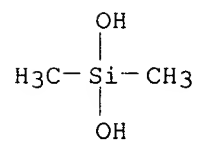
CCI PMS



CM 5

CRN 1066-42-8

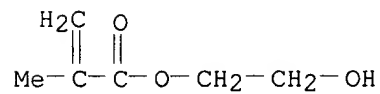
CMF C2 H8 O2 Si



CM 6

CRN 868-77-9

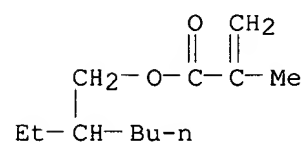
CMF C6 H10 O3



CM 7

CRN 688-84-6

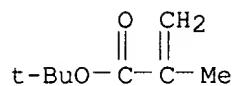
CMF C12 H22 O2



CM 8

CRN 585-07-9

CMF C8 H14 O2



RN 180467-93-0 CAPLUS

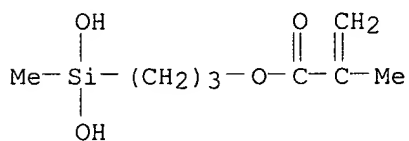
CN 2-Propenoic acid, 2-methyl-, 3-(dihydroxymethylsilyl)propyl ester, polymer

with 1,1-dimethylethyl 2-methyl-2-propenoate, dimethylsilanediol, diphenylsilanediol, 2-ethylhexyl 2-methyl-2-propenoate, .alpha.-2-propenyl-.omega.-hydroxypoly(oxy-1,2-ethanediyl) and silicic acid methyl ester, graft (9CI) (CA INDEX NAME)

CM 1

CRN 156787-79-0

CMF C8 H16 O4 Si

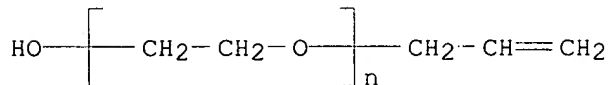


CM 2

CRN 27274-31-3

CMF (C2 H4 O)_n C3 H6 O

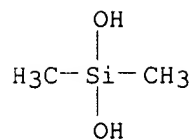
CCI PMS



CM 3

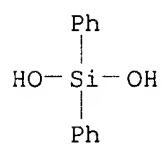
CRN 1066-42-8

CMF C2 H8 O2 Si



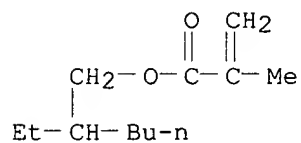
CM 4

CRN 947-42-2
CMF C12 H12 O2 Si



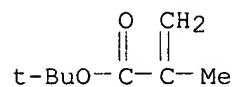
CM 5

CRN 688-84-6
CMF C12 H22 O2



CM 6

CRN 585-07-9
CMF C8 H14 O2



CM 7

CRN 12002-26-5
CMF C H4 O . x Unspecified
CDES 8:GD,ESTER

CM 8

CRN 1343-98-2
CMF Unspecified

CCI MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 9

CRN 67-56-1

CMF C H4 O

 $\text{H}_3\text{C}-\text{OH}$

RN 180684-68-8 CAPLUS

CN 2-Propenoic acid, 2-methyl-, 3-(dihydroxymethylsilyl)propyl ester,
polymer

with 1,1-dimethylethyl 2-methyl-2-propenoate, dimethylsilanediol,
diphenylsilanediol, 2-ethylhexyl 2-methyl-2-propenoate, 2-hydroxyethyl
2-methyl-2-propenoate and .alpha.-2-propenyl-.omega.-hydroxypoly(oxy-1,2-
ethanediyl), graft, 1,2-cyclohexanedicarboxylate, compd. with
2-(dimethylamino)ethanol (9CI) (CA INDEX NAME)

CM 1

CRN 108-01-0

CMF C4 H11 N O

 $\text{Me}_2\text{N}-\text{CH}_2-\text{CH}_2-\text{OH}$

CM 2

CRN 180684-67-7

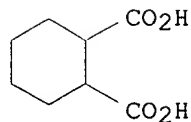
CMF (C12 H22 O2 . C12 H12 O2 Si . C8 H16 O4 Si . C8 H14 O2 . C6 H10 O3 .
C2 H8 O2 Si . (C2 H4 O)n C3 H6 O)x . x C8 H12 O4

CDES 8:GD

CM 3

CRN 1687-30-5

CMF C8 H12 O4



CM 4

CRN 179992-45-1

CMF (C12 H22 O2 . C12 H12 O2 Si . C8 H16 O4 Si . C8 H14 O2 . C6 H10
O3 . C2 H8 O2 Si . (C2 H4 O)n C3 H6 O)x

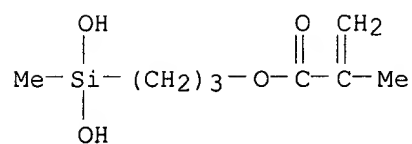
CCI PMS

CDES 8:PM, GRAFT

CM 5

CRN 156787-79-0

CMF C8 H16 O4 Si

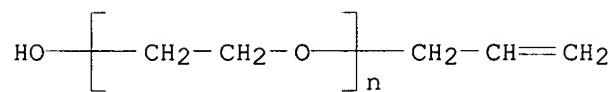


CM 6

CRN 27274-31-3

CMF (C2 H4 O)_n C3 H6 O

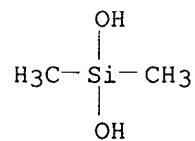
CCI PMS



CM 7

CRN 1066-42-8

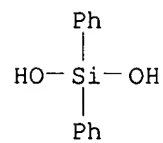
CMF C2 H8 O2 Si



CM 8

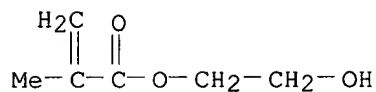
CRN 947-42-2

CMF C12 H12 O2 Si



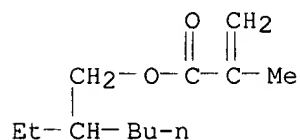
CM 9

CRN 868-77-9
CMF C6 H10 O3



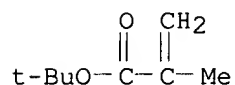
CM 10

CRN 688-84-6
CMF C12 H22 O2



CM 11

CRN 585-07-9
CMF C8 H14 O2



RN 180684-70-2 CAPLUS

CN 2-Propenoic acid, 2-methyl-, 3-(dihydroxymethylsilyl)propyl ester,
polymer

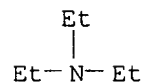
with 1,1-dimethylethyl 2-methyl-2-propenoate, dimethylsilanediol,
2-ethylhexyl 2-methyl-2-propenoate, 2-hydroxyethyl 2-methyl-2-propenoate
and .alpha.-2-propenyl-.omega.-hydroxypoly(oxy-1,2-ethanediyl), graft,
1,2-cyclohexanedicarboxylate, compd. with N,N-diethylethanamine (9CI)

(CA

INDEX NAME)

CM 1

CRN 121-44-8
CMF C6 H15 N

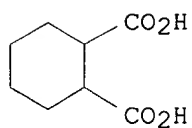


CM 2

CRN 180684-69-9
 CMF (C12 H22 O2 . C8 H16 O4 Si . C8 H14 O2 . C6 H10 O3 . C2 H8 O2 Si .
 (C2 H4 O)n C3 H6 O)x . x C8 H12 O4
 CDES 8:GD

CM 3

CRN 1687-30-5
 CMF C8 H12 O4

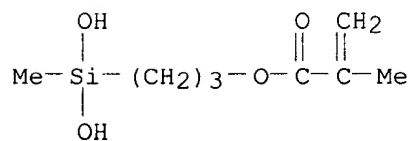


CM 4

CRN 179992-47-3
 CMF (C12 H22 O2 . C8 H16 O4 Si . C8 H14 O2 . C6 H10 O3 . C2 H8 O2
 Si . (C2 H4 O)n C3 H6 O)x
 CCI PMS
 CDES 8:PM, GRAFT

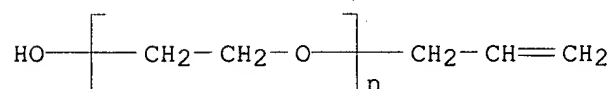
CM 5

CRN 156787-79-0
 CMF C8 H16 O4 Si



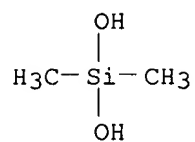
CM 6

CRN 27274-31-3
 CMF (C2 H4 O)n C3 H6 O
 CCI PMS



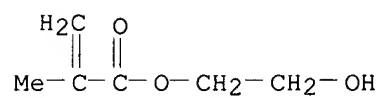
CM 7

CRN 1066-42-8
 CMF C2 H8 O2 Si



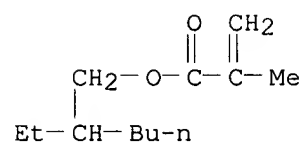
CM 8

CRN 868-77-9
CMF C6 H10 O3



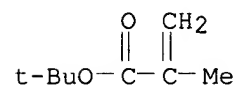
CM 9

CRN 688-84-6
CMF C12 H22 O2



CM 10

CRN 585-07-9
CMF C8 H14 O2



L24 ANSWER 25 OF 46 CAPLUS COPYRIGHT 2000 ACS

AN 1996:241685 CAPLUS

DN 124:292444

TI Stainproof coating compositions containing acrylic resins from bulky monomers

IN Noritake, Yoshuki; Kawakami, Takeshi; Sugiura, Mamoru; Okude, Yoshitaka; Nikaido, Norio; Koyama, Yoichi; Kato, Makoto

PA Toyota Motor Co Ltd, Japan; Nippon Paint Co Ltd; Toyoda Chuo Kenkyusho KK

SO Jpn. Kokai Tokkyo Koho, 5 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 08020744	A2	19960123	JP 1994-157573	19940708

AB Title comps., useful for top coatings on automobile body, etc., contain acrylic resins including tert-Bu methacrylate (I), cyclohexyl methacrylate, or trimethylsilyl methacrylate, and crosslinkers. Thus, 70 parts 15:30:13:40:2 I-styrene-2-ethylhexyl acrylate-2-hydroxyethyl methacrylate-acrylic acid copolymer and 30 parts U 20SE60 were mixed to give a clear coating, which was applied onto a white precoated steel plate and baked at 140.degree. for 30 min to give a test piece showing retention of brightness after 3-mo outdoor exposure.

IT 176205-40-6P

RL: IMF (Industrial manufacture); POF (Polymer in formulation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (stainproof coatings of acrylic resins including bulky monomers and crosslinkers)

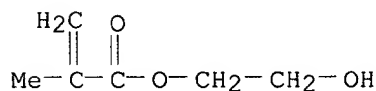
RN 176205-40-6 CAPLUS

CN 2-Propenoic acid, 2-methyl-, 1,1-dimethylethyl ester, polymer with ethenylbenzene, 2-ethylhexyl 2-propenoate, formaldehyde, 2-hydroxyethyl 2-methyl-2-propenoate, 2-propenoic acid and 1,3,5-triazine (9CI) (CA INDEX NAME)

CM 1

CRN 868-77-9

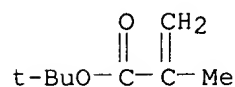
CMF C6 H10 O3



CM 2

CRN 585-07-9

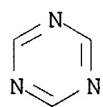
CMF C8 H14 O2



CM 3

CRN 290-87-9

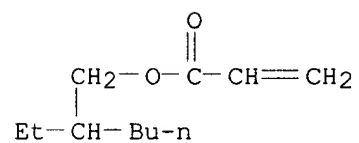
CMF C3 H3 N3



CM 4

CRN 103-11-7

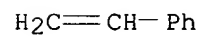
CMF C11 H20 O2



CM 5

CRN 100-42-5

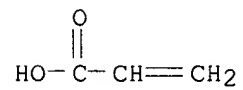
CMF C8 H8



CM 6

CRN 79-10-7

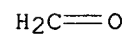
CMF C3 H4 O2



CM 7

CRN 50-00-0

CMF C H2 O



L24 ANSWER 26 OF 46 CAPLUS COPYRIGHT 2000 ACS

AN 1996:67412 CAPLUS

DN 124:155645

TI Hair cosmetics containing cationic or amphoteric polymers

IN Narasaki, Kanji; Kawaguchi, Shigeoki; Kato, Hisayoshi

PA Mitsubishi Kagaku Kk, Japan

SO Jpn. Kokai Tokkyo Koho, 9 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 07285831	A2	19951031	JP 1994-78842	19940418

AB Hair cosmetics contain cationic or amphoteric polymers (wt.-av. mol. wt. 5,000-300,000) comprising copolymers of (A) ionic unsatd. monomers 20-60, (B) polyether-contg. unsatd. monomers

CH2:CR1CO(OCH2OCH2)m(OCH2CHR3)n[O(CH2)4]pOR2 (R1 = H, Me; R2 = C1-4 satd. alkyl, Ph, H; R3 = C1-3 satd. alkyl;

m, n, p = 0-30; m + n + p = 3-50) 21-60, (C) (meth)acrylic acid C1-24 alkyl esters 10-59, and (D) other polymerizable unsatd. monomers 0-20 wt.%. The cosmetics show good hair-setting property and give flexibility to hair. Aerosol spray contg. 3 wt.% quaternization product obtained by treatment of 40:10:25:25 (by wt.) dimethylaminoethyl methacrylate-NK

Ester M 90G-NK Ester M 230G-Bu methacrylate copolymer with monochloroacetic acid

aminomethylpropanol salt was formulated.

IT 173388-82-4P

RL: BUU (Biological use, unclassified); PNU (Preparation, unclassified); BIOL (Biological study); PREP (Preparation); USES (Uses)

(hair-setting cosmetics contg. unsatd. monomer-based cationic or amphoteric polymers)

RN 173388-82-4 CAPLUS

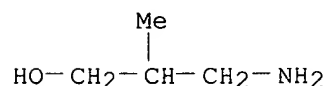
CN 2-Propenoic acid, 2-methyl-, polymer with 2-(dimethylamino)ethyl 2-methyl-2-propenoate, 1,1-dimethylethyl 2-propenoate, dodecyl 2-methyl-2-propenoate, methyloxirane, oxirane and 2-propenoic acid, compd.

with 3-amino-2-methyl-1-propanol (9CI) (CA INDEX NAME)

CM 1

CRN 15518-10-2

CMF C4 H11 N O



CM 2

CRN 173388-81-3

CMF (C16 H30 O2 . C8 H15 N O2 . C7 H12 O2 . C4 H6 O2 . C3 H6 O . C3 H4

O2

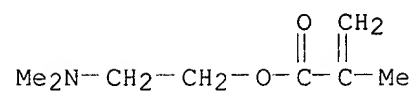
. C2 H4 O)x

CCI PMS

CM 3

CRN 2867-47-2

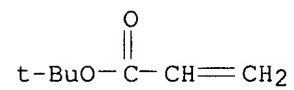
CMF C8 H15 N O2



CM 4

CRN 1663-39-4

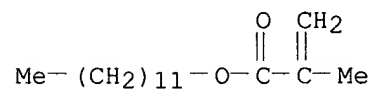
CMF C7 H12 O2



CM 5

CRN 142-90-5

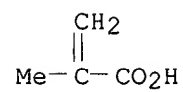
CMF C16 H30 O2



CM 6

CRN 79-41-4

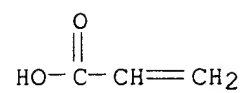
CMF C4 H6 O2



CM 7

CRN 79-10-7

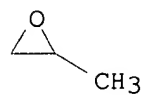
CMF C3 H4 O2



CM 8

CRN 75-56-9

CMF C3 H6 O



CM 9

CRN 75-21-8

CMF C2 H4 O



L24 ANSWER 27 OF 46 CAPLUS COPYRIGHT 2000 ACS

AN 1995:986842 CAPLUS

DN 124:59444

TI Curable compositions of hydrolyzable silyl-containing vinyl polymers and aminosilane-modified epoxy compound hardeners

IN Sato, Kuniaki; Katsurahara, Tooru; Amano, Takashi; Mukoyama, Yoshuki

PA Hitachi Chemical Co Ltd, Japan

SO Jpn. Kokai Tokkyo Koho, 13 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 07258503	A2	19951009	JP 1994-49634	19940322

AB Curable compns. contain (A) nonaq. dispersions comprising dispersion-stabilizing vinyl resins and dispersed vinyl resin particles including SiXkR13-k on .gtoreq.1 of the 2 resins (R1 = alkyl, aryl, aralkyl; X = halo, alkoxy, acyloxy, OH; k = 1-3) and (B) aminosilane-modified epoxy resins as hardeners. Thus, 300 g 50% soln. of 75:175:180:70 .gamma.-methacryloxypropyltrimethoxysilane (I)-Bu methacrylate-2-ethylhexyl methacrylate-lauryl methacrylate copolymer in mineral turpentine (II) was treated with I 100, Me methacrylate 200, and Et acrylate 50 g in the presence of AIBN in to give a 50% dispersion in II, mixed (94 parts) with 83.3 parts II and 6 parts 124:166 Epomik R 140-.gamma.-aminopropyltriethoxysilane copolymer, and used in white enamels.

IT **172504-13-1P**
 RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (curable nonaq. vinyl polymer dispersions for coatings)

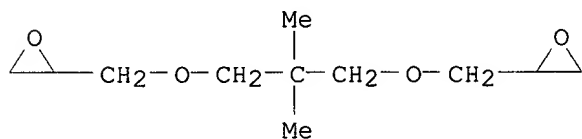
RN 172504-13-1 CAPLUS

CN 2-Propenoic acid, 2-methyl-, butyl ester, polymer with 1,1-dimethylethyl 2-methyl-2-propenoate, 2,2'-[(2,2-dimethyl-1,3-propanediyl)bis(oxymethylene)]bis[oxirane], dodecyl 2-propenoate, 2-ethylhexyl 2-propenoate, ethyl 2-propenoate, methyl 2-methyl-2-propenoate, 3-(triethoxysilyl)-1-propanamine and 3-(trimethoxysilyl)propyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 17557-23-2

CMF C11 H20 O4

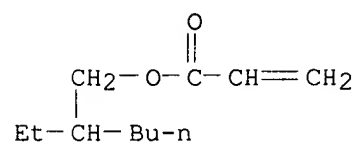


CM 2

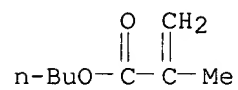
CRN 2530-85-0

CMF C10 H20 O5 Si

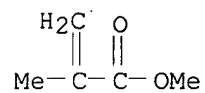
CM 7

CRN 103-11-7
CMF C11 H20 O2

CM 8

CRN 97-88-1
CMF C8 H14 O2

CM 9

CRN 80-62-6
CMF C5 H8 O2

L24 ANSWER 28 OF 46 CAPLUS COPYRIGHT 2000 ACS

AN 1995:951758 CAPLUS

DN 124:59318

TI Curable aryllic coating compositions resistant to acid rain, scratch, fouling, and weather

IN Kimura, Isao; Kodama, Shunichi; Myazaki, Nobuyuki; Sasao, Yasuyuki; Kido, Koichiro; Hotsuta, Kazuhiko; Kato, Takeshi; Iwamoto, Akio

PA Asahi Glass Co Ltd, Japan; Mitsubishi Rayon Co

SO Jpn. Kokai Tokkyo Koho, 9 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 07228816	A2	19950829	JP 1994-21388	19940218

AB Title comps. contain (A) (meth)acrylic copolymers having crosslinkable functional groups X1, (B) (meth)acrylic copolymers having crosslinkable functional groups X2 reactive to X1, (C) fluoroolefin-type copolymers having crosslinkable functional groups Y reactive to X1 and/or X2 and (D) auxiliary crosslinking agents. Thus, 15:35:15:15:10:10 styrene (I)-Bu methacrylate (II)-2-ethylhexyl methacrylate-2-ethylhexyl acrylate (III)-methacrylic acid-(2-hydroxyethyl methacrylate-succinic anhydride adduct) copolymer 54, 30:15:15:15:25 I-II-III-2-hydroxyethyl methacrylate-glycidyl methacrylate copolymer 30, 50:20:20:10 chlorotrifluoroethylene-cyclohexyl vinyl ether-hydroxybutyl vinyl ether-Et vinyl ether copolymer 36, and Nikalac MW 30 15 parts were mixed, overcoated on Ag-coated steel plates, and cured at 140.degree. for 30 min.

IT 172157-97-0P 172157-98-1P
 RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (acrylic fluoropolymers for coatings resistant to acid rain, scratch, fouling, and weather)

RN 172157-97-0 CAPLUS

CN 2-Propenoic acid, 2-methyl-, butyl ester, polymer with 1,1-dimethylethyl 2-methyl-2-propenoate, dodecyl 2-methyl-2-propenoate, ethenylbenzene, (ethenyloxy)butanol, ethoxyethene, 2-ethylhexyl 2-propenoate, formaldehyde, 2-hydroxyethyl 2-methyl-2-propenoate, oxiranylmethyl 2-methyl-2-propenoate, 2-(2-propenyloxy)ethanol, [(2-propenyloxy)methyl]oxirane, tetrafluoroethene, 1,3,5-triazine-2,4,6-triamine and 3-(trimethoxysilyl)propyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 42978-84-7

CMF C6 H12 O2

CCI IDS

CDES *

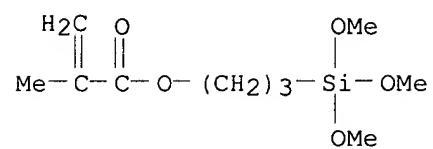
n-BuO-CH=CH2

D1-OH

CM 2

CRN 2530-85-0

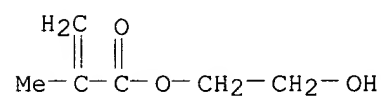
CMF C10 H20 O5 Si



CM 3

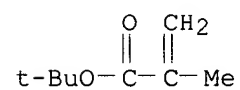
CRN 868-77-9

CMF C6 H10 O3



CM 4

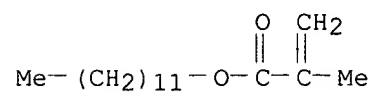
CRN 585-07-9

C8H14O2

CM 5

CRN 142-90-5

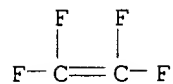
CMF C16 H30 O2



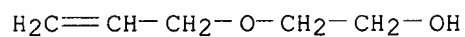
CM 6

CRN 116-14-3

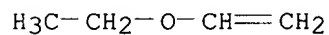
CMF C2 F4



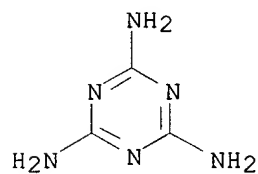
CM 7

CRN 111-45-5
CMF C5 H10 O2

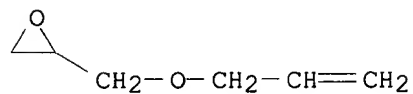
CM 8

CRN 109-92-2
CMF C4 H8 O

CM 9

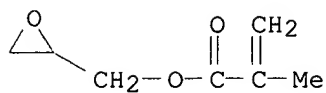
CRN 108-78-1
CMF C3 H6 N6

CM 10

CRN 106-92-3
CMF C6 H10 O2

CM 11

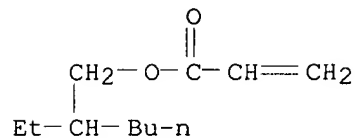
CRN 106-91-2
CMF C7 H10 O3



CM 12

CRN 103-11-7

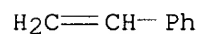
CMF C11 H20 O2



CM 13

CRN 100-42-5

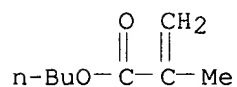
CMF C8 H8



CM 14

CRN 97-88-1

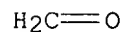
CMF C8 H14 O2



CM 15

CRN 50-00-0

CMF C H2 O



RN 172157-98-1 CAPLUS

CN 2-Propenoic acid, 2-methyl-, butyl ester, polymer with Coronate 2513, 1,1-dimethylethyl 2-methyl-2-propenoate, dodecyl 2-methyl-2-propenoate, ethenylbenzene, (ethenyloxy)butanol, ethoxyethene, 2-ethylhexyl 2-propenoate, 2-hydroxyethyl 2-methyl-2-propenoate, oxiranylmethyl 2-methyl-2-propenoate, 2-(2-propenyloxy)ethanol, [(2-propenyloxy)methyl]oxirane, tetrafluoroethene and 3-

(trimethoxysilyl)propyl 2-methyl-2-propenoate (9CI)	(CA INDEX NAME)

CM 1

CRN 115515-45-2

CMF Unspecified

CCI MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

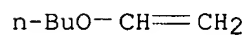
CM 2

CRN 42978-84-7

CMF C6 H12 O2

CCI IDS

CDES *

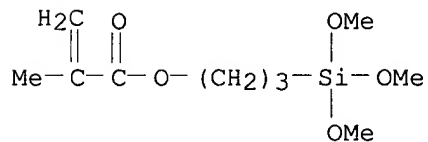


D1-OH

CM 3

CRN 2530-85-0

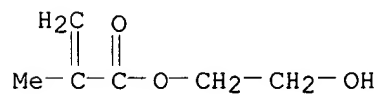
CMF C10 H20 O5 Si



CM 4

CRN 868-77-9

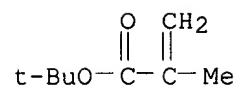
CMF C6 H10 O3



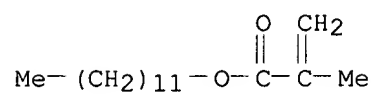
CM 5

CRN 585-07-9

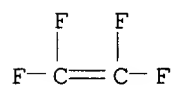
CMF C8 H14 O2



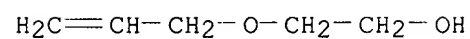
CM 6

CRN 142-90-5
CMF C16 H30 O2

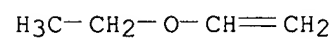
CM 7

CRN 116-14-3
CMF C2 F4

CM 8

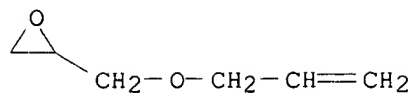
CRN 111-45-5
CMF C5 H10 O2

CM 9

CRN 109-92-2
CMF C4 H8 O

CM 10

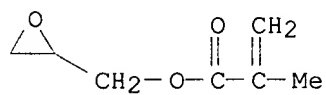
CRN 106-92-3
CMF C6 H10 O2



CM 11

CRN 106-91-2

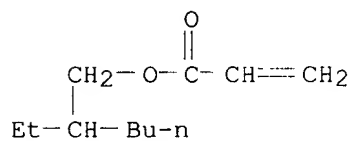
CMF C7 H10 O3



CM 12

CRN 103-11-7

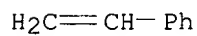
CMF C11 H20 O2



CM 13

CRN 100-42-5

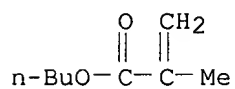
CMF C8 H8



CM 14

CRN 97-88-1

CMF C8 H14 O2



L24 ANSWER 29 OF 46 CAPLUS COPYRIGHT 2000 ACS

AN 1995:96732 CAPLUS

DN 122:58297

TI Dispersions of acrylic copolymers containing copolymerized emulsifier for antisoiling coatings

IN Kajiwara, Ichiro; Kato, Minoru; Hiraharu, Akio

PA Japan Synthetic Rubber Co Ltd, Japan

SO Jpn. Kokai Tokkyo Koho, 10 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	---	-----	-----	-----
PI	JP 06116528	A2	19940426	JP 1992-267345	19921006
	JP 3094118	B2	20001003		

AB The title copolymers are prepd. from hydroxyalkyl (meth)acrylates, alkyl (meth)acrylates, unsatd. carboxylic acids, and copolymerizable emulsifiers

such as Aqualon RN 20. An aq. dispersion contg. particles (50 nm) of a 3:10:40:5:1:44 Aqualon RN 20-Bu acrylate-Et acrylate-2-hydroxyethyl methacrylate-methacrylic acid-Me methacrylate copolymer was coated onto an

ABS polymer sheet and dried 0.5 h at 80.degree. to give a 10- μ m coating

showing good adhesion before and after 24 h in water and good antisoiling properties.

IT 160308-46-3P

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(in aq. dispersions for antisoiling coatings)

RN 160308-46-3 CAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with butyl 2-propenoate, 1,1-dimethylethyl 2-methyl-2-propenoate, 2-hydroxyethyl 2-methyl-2-propenoate, methyl 2-methyl-2-propenoate and .alpha.-[nonyl(2-propenyl)phenyl]-.omega.-hydroxypoly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

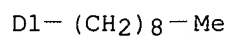
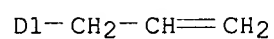
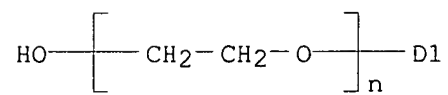
CM 1

CRN 111144-52-6

CMF (C2 H4 O)_n C18 H28 O

CCI IDS, PMS

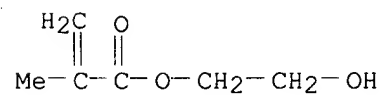
CDES 8:ID,RING



CM 2

CRN 868-77-9

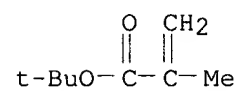
CMF C6 H10 O3



CM 3

CRN 585-07-9

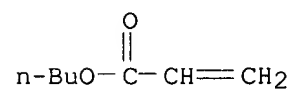
CMF C8 H14 O2



CM 4

CRN 141-32-2

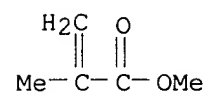
CMF C7 H12 O2



CM 5

CRN 80-62-6

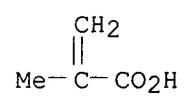
CMF C5 H8 O2



CM 6

CRN 79-41-4

CMF C4 H6 O2



L24 ANSWER 30 OF 46 CAPLUS COPYRIGHT 2000 ACS

AN 1995:4696 CAPLUS

DN 122:10966

TI Water-soluble polymers containing complex hydrophobic groups

IN Jenkins, Richard D.; Bassett, David R.; Shay, Gregory D.

PA Union Carbide Chemicals and Plastics Technology Corp., USA

SO U.S., 27 pp.

CODEN: USXXAM

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	---	-----	-----	-----
PI	US 5292828	A	19940308	US 1992-887641	19920529
	US 5352734	A	19941004	US 1993-163485	19931207
	US 5401802	A	19950328	US 1994-251521	19940531
PRAI	US 1992-887641		19920529		
	US 1993-163485		19931207		

AB The title polymers, useful as thickening agents for improved paint formulations, comprise hydrophobic segments, each segment contg.

.gtoreq.1

hydrophobic group or complex hydrophobic group covalently bonded to the polymer, wherein the polymer has an amt. of complex hydrophobic groups sufficient to provide for enhanced thickening of aq. solns. contg. the polymers. These polymers provide superior thickening and leveling in aq. systems through hydrophobic assocns., and aid suspension of particulate materials in non-aq. systems. An alkali-sol. polymer was prepd. by polymn. of a macromonomer [prepd. by reacting 1,3-bis(nonylphenoxy)-2-propanol with m-TMI] with Et acrylate and methacrylic acid.

IT 157148-26-0P

RL: PREP (Preparation)

(prepn. of, alkali-sol., thickening agents as)

RN 157148-26-0 CAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with 1,1-dimethylethyl 2-propenoate, ethyl 2-propenoate, 1-(1-isocyanato-1-methylethyl)-3-(1-methylethenyl)benzene and .alpha.-[2-(nonylphenoxy)-1-[(nonylphenoxy)methyl]ethyl]-.omega.-hydroxypoly(oxy-1,2-ethanediyl)

(9CI)

(CA INDEX NAME)

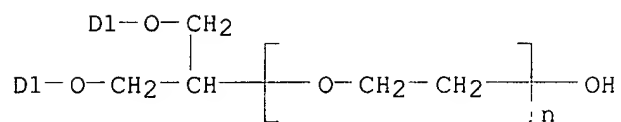
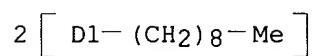
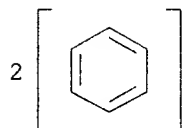
CM 1

CRN 147557-13-9

CMF (C2 H4 O)_n C33 H52 O3

CCI IDS, PMS

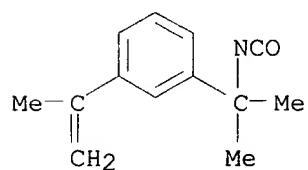
CDES 8:ID



CM 2

CRN 2094-99-7

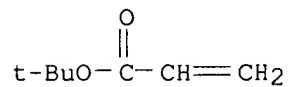
CMF C13 H15 N O



CM 3

CRN 1663-39-4

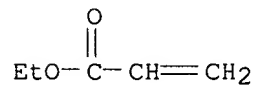
CMF C7 H12 O2



CM 4

CRN 140-88-5

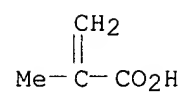
CMF C5 H8 O2



CM 5

CRN 79-41-4

CMF C4 H6 O2



L24 ANSWER 31 OF 46 CAPLUS COPYRIGHT 2000 ACS

AN 1994:702208 CAPLUS

DN 121:302208

TI Complex hydrophobe compounds, macromonomers, and macromonomer-containing polymers

IN Jenkins, Richard Duane; Basset, David Robinson; Shay, Gregory Dean; Smith,

Danny Elwood; Argyropoulos, John Nicholas; Loftus, James Edward

PA Union Carbide Chemicals and Plastics Technology Corp., USA

SO PCT Int. Appl., 115 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 2

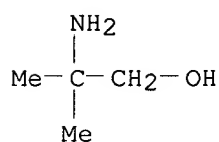
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9324544	A1	19931209	WO 1993-US4872	19930524
	W: AU, BB, BG, BR, CA, FI, HU, JP, KP, KR, LK, MG, MN, MW, NO, NZ, PL, RO, RU, SD				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	US 5292843	A	19940308	US 1992-887647	19920529
	US 5488180	A	19960130	US 1992-887648	19920529
	AU 9343873	A1	19931230	AU 1993-43873	19930524
	AU 672981	B2	19961024		
	EP 642540	A1	19950315	EP 1993-914075	19930524
	EP 642540	B1	19970806		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
SE	AT 156495	E	19970815	AT 1993-914075	19930524
	ES 2105279	T3	19971016	ES 1993-914075	19930524
	FI 9405608	A	19950130	FI 1994-5608	19941128
PRAI	US 1992-887644		19920529		
	US 1992-887645		19920529		
	US 1992-887647		19920529		
	US 1992-887648		19920529		
	US 1992-887673		19920529		
	WO 1993-US4872		19930524		
AB	Polymers, useful as thickeners in aq. systems such as paints, comprise the reaction product of: (A) about 0-99.9 wt. percent of one or more nonionic, cationic, anionic or amphoteric monomers; (B) about 0-99.9 wt. percent of one or more monoethylenically unsatd. monomers different from (A); (C) about 0.1-100 wt. percent of one or more monoethylenically unsatd. macromonomers different from (A) and (B); and (D) about 0-20 wt. percent or greater of one or more polyethylenically unsatd. monomers different from (A), (B) and (C). The macromonomers are manufd. from complex hydrophobe compds. having .gtoreq.1 active H or their alkoxyated derivs. Thus, reaction of TMI with polyethoxylated nonylphenol (d.p. 40) gave a macromonomer, which was polymd. (10%) with 50% Et acrylate and 40% methacrylic acid to give a polymer with Brookfield viscosity 90, 380, and 1000 cP s at 0.25, 0.5, and 0.75%, resp. and 6 rpm and pH 9 (controlled by 2-amino-2-methylpropanol).				
IT	159159-01-0P				
	RL: PREP (Preparation)				
	(manuf. of, for thickeners for aq. systems)				
RN	159159-01-0 CAPLUS				

CN 2-Propenoic acid, 2-methyl-, polymer with 1,1-dimethylethyl 2-propenoate, ethyl 2-propenoate and .alpha.-[[[1-methyl-1-[3-(1-methylethenyl)phenyl]ethyl]amino]carbonyl]-.omega.-[2-[(4,6-dimethylheptyl)phenoxy]-1-[[[4,6-dimethylheptyl)phenoxy]methyl]ethoxy]poly(oxy-1,2-ethanediyl), compd. with 2-amino-2-methyl-1-propanol (9CI) (CA INDEX NAME)

CM 1

CRN 124-68-5

CMF C4 H11 N O



CM 2

CRN 159159-00-9

CMF (C7 H12 O2 . C5 H8 O2 . C4 H6 O2 . (C2 H4 O)n C46 H67 N O4)x

CCI PMS

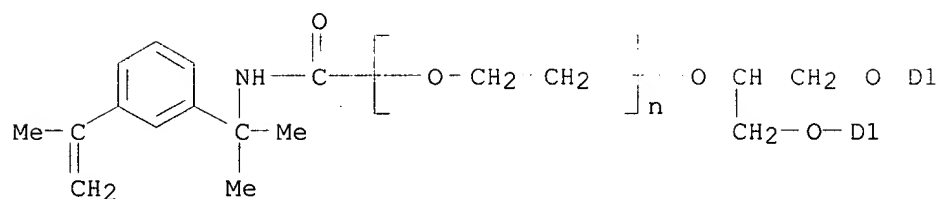
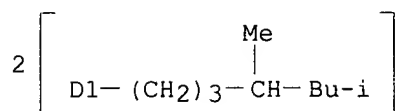
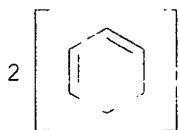
CM 3

CRN 159158-74-4

CMF (C2 H4 O)n C46 H67 N O4

CCI IDS, PMS

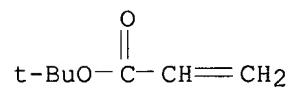
CDES 8:ID



CM 4

CRN 1663-39-4

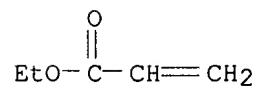
CMF C7 H12 O2



CM 5

CRN 140-88-5

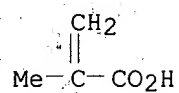
CMF C5 H8 O2



CM 6

CRN 79-41-4

CMF C4 H6 O2



L24 ANSWER 32 OF 46 CAPLUS COPYRIGHT 2000 ACS
 AN 1994:632611 CAPLUS
 DN 121:232611
 TI Aircraft anti-icing fluids thickened by associative polymers
 IN Jenkins, Richard Dean; Bassett, David Robinson; Lightfoot, Richard Hall;
 Boluk, Mehmet Yaman
 PA Union Carbide Chemicals and Plastics Technology Corp., USA
 SO PCT Int. Appl., 103 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9324543	A2	19931209	WO 1993-US4865	19930524
	W: AU, BB, BG, BR, CA, FI, HU, JP, KP, KR, LK, MG, MN, MW, NO, NZ, PL, RO, RU, SD				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	US 5461100	A	19951024	US 1992-887643	19920529
	AU 9343872	A1	19931230	AU 1993-43872	19930524
	EP 642542	A1	19950315	EP 1993-914069	19930524
	R: AT, BE, CH, DE, DK, FR, GB, LI, NL, SE				
	JP 07507581	T2	19950824	JP 1993-500660	19930524
	RU 2130474	C1	19990520	RU 1994-46104	19930524
	FI 9405513	A	19941123	FI 1994-5513	19941123
PRAI	US 1992-887643		19920529		
	WO 1993-US4865		19930524		
AB	An anti-icing fluid suitable for ground treatment of aircraft comprises a glycol-based, aq. soln. contg. a hydrophobe-bearing, macromonomer-contg. polymer thickener in an amt. of less than about 5 wt.%. Thickening occurs				
	predominantly by assocn. among hydrophobe groups. Thickening may be enhanced by addn. of a surfactant or other materials which act as co-thickeners. Use of this thickened fluid does not adversely affect airfoil lift characteristics during takeoff, because the fluid exhibits shear thinning and readily flows off the aircraft surfaces when exposed				
to	wind shear during the aircraft's takeoff run.				
IT	158461-24-6P				
	RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of, as thickeners for deicers)				
RN	158461-24-6 CAPLUS				

L24 ANSWER 33 OF 46 CAPLUS COPYRIGHT 2000 ACS

AN 1994:545411 CAPLUS

DN 121:145411

TI Thermal transfer recording material

IN Tanaka, Kazuyoshi; Hashimoto, Yutaka; Kamei, Masayuki

PA Dainippon Ink & Chemicals, Japan

SO Jpn. Kokai Tokkyo Koho, 16 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 05185757	A2	19930727	JP 1992-4835	19920114

AB In the title material consisting of a base film, an ink layer on 1 side of

the base film, and a synthetic resin layer on the other side, the above resin layer contains a resin contg. fluorinated-alkyl and

polyorganosiloxy

groups and, optionally, in addn., polyoxyalkylene or polyoxyalkylene and alkyl groups. The above resin consists of a polymer obtained from a fluorinated-alkyl group-contg. ethylenic monomer and a polyorganosiloxy group-contg. ethylenic monomer and, optionally, in addn., a polyoxyalkylene group-contg. ethylenic monomer and alkylene group-contg. ethylenic monomer. The material treated with the above resin has anti-sticking characteristics and provides high-resoln. and high-quality printings at high speed printing.

IT 156932-47-7

RL: USES (Uses)

(treatment agent contg., thermal printing material treated)

RN 156932-47-7 CAPLUS

CN 2-Propenoic acid, 2-methyl-, 1,1-dimethylethyl ester, polymer with

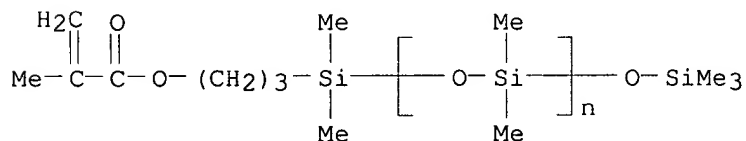
.alpha.-[dimethyl[3-[(2-methyl-1-oxo-2-propenyl)oxy]propyl]silyl]-.omega.-[[(trimethylsilyl)oxy]poly[oxy(dimethylsilylene)], 2-[[heptadecafluorooctyl)sulfonyl]propylamino]ethyl 2-propenoate and .alpha.-(2-methyl-1-oxo-2-propenyl)-.omega.-hydroxypoly[oxy-1,2-ethanediyl] (9CI) (CA INDEX NAME)

CM 1

CRN 123109-42-2

CMF (C2 H6 O Si)n C12 H26 O3 Si2

CCI PMS

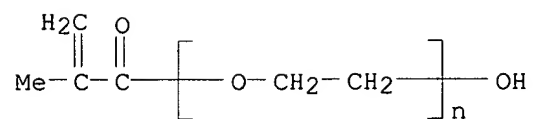


CM 2

CRN 25736-86-1

CMF (C2 H4 O)n C4 H6 O2

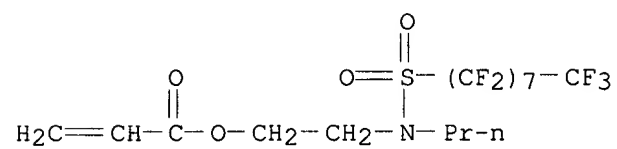
CCI PMS



CM 3

CRN 2357-60-0

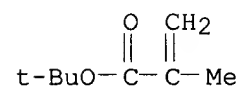
CMF C16 H14 F17 N O4 S



CM 4

CRN 585-07-9

CMF C8 H14 O2



L24 ANSWER 34 OF 46 CAPLUS COPYRIGHT 2000 ACS
 AN 1994:411846 CAPLUS
 DN 121:11846
 TI Aqueous silicone modified polymers
 IN Mizutani, Keita; Oosugi, Koji; Eguchi, Yoshio
 PA Nippon Paint Co Ltd, Japan
 SO Jpn. Kokai Tokkyo Koho, 14 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 06025369	A2	19940201	JP 1993-114559	19930517
PRAI	JP 1992-123716		19920515		

AB Title polymers, to form coating films with good water repellency, are composed of film-formable copolymers contg. (A) .alpha.,.beta.-ethylenic unsatd. monomers and (B) .gtoreq.1 silicone compds. chosen from R13SiO(SiR12O)a(SiR1XO)b(SiR1YO)cSiR13 and YR12SiO(SiR12O)a(SiR1XO)bSiR12Y [R1 = Ph, C1-6 alkyl; X = 3-(meth)acryloxypropyl; Y = monovalent substituent contg. CO2H, SO3H, and/or NR22 (R2 = org. residue); a = 1-20; b = 0.5-3; c = 1-10]. Thus, a mixt. contg. 40 parts Me methacrylate and 40 parts 2-ethylhexyl methacrylate and a mixt. contg. 4,4'-azobis-4-cyanovaleric acid 0.5, dimethylethanolamine 0.4, and H2O 50 parts were dropped sep. during 2 h into a blend of HO2C(CH2)10[SiMe(C3H6O2CCMe:CH2)O](SiMe2O)7SiMe2(CH2)10CO2H 20, dimethylethanolamine 2.2, and H2O 350 parts preheated at 80.degree., and kept at 80.degree. for 3 h to give a water-dispersed silicone-graft acrylic resin with particle size 120 nm, wt. av. mol. wt. 900,000, and nonvolatile 19.7%. A coating film obtained from the resin showed good appearance and good water repellency.

IT **155942-73-7P**
 RL: PREP (Preparation)
 (prepn. of, for aq. water-repellent coatings)

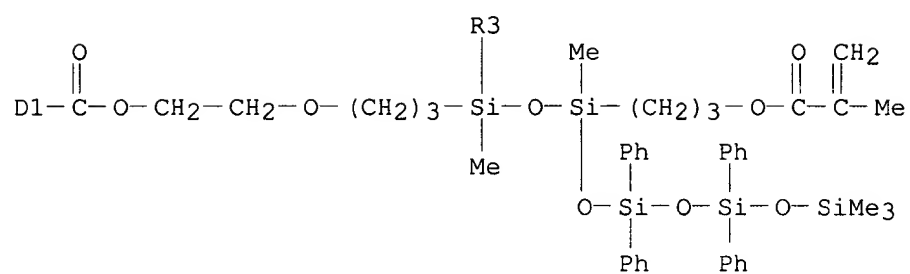
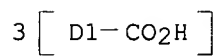
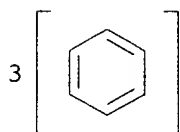
RN 155942-73-7 CAPLUS

CN Benzenedicarboxylic acid, [1-[[[1,3-bis[3-(2-hydroxyethoxy)propyl]-1,3,5,5,5-pentamethyltrisiloxanyl]oxy]-1,3,5-trimethyl-5-[[[1,7,7,7-tetramethyl-1-[3-[(2-methyl-1-oxo-2-propenyl)oxy]propyl]-3,3,5,5-tetraphenyltetrasiloxanyl]oxy]-1,3,5-trisiloxanetriyl]tris(3,1-propanediyl)oxy-2,1-ethanediyl) ester, polymer with 1,1-dimethylethyl 2-methyl-2-propenoate and 2-ethylhexyl 2-methyl-2-propenoate, graft (9CI) (CA INDEX NAME)

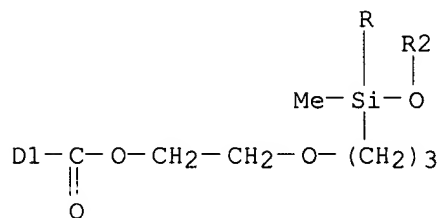
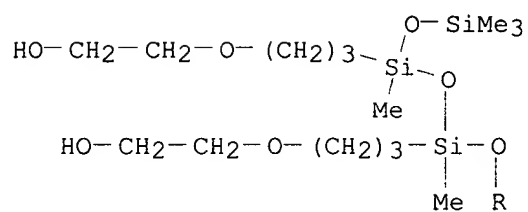
CM 1

CRN 155942-72-6
 CMF C92 H134 O30 Si10
 CCI IDS
 CDES 8:ID

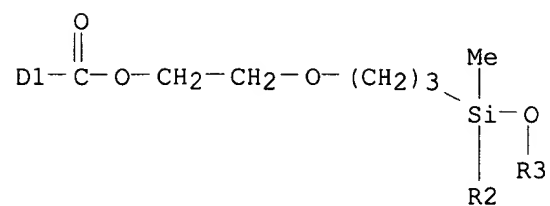
PAGE 1-A



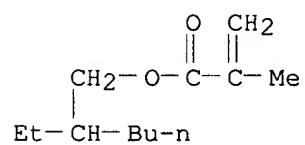
PAGE 2-A



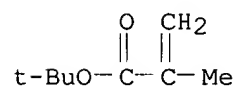
PAGE 3-A



CM 2

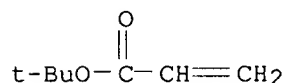
CRN 688-84-6
CMF C12 H22 O2

CM 3

CRN 585-07-9
CMF C8 H14 O2

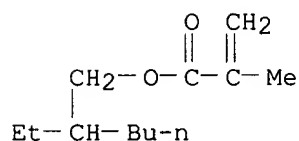
L24 ANSWER 35 OF 46 CAPLUS COPYRIGHT 2000 ACS
 AN 1994:220685 CAPLUS
 DN 120:220685
 TI Dispersants for rosin-based emulsion sizes for paper
 IN Niike, Hitoshi; Sakuraba, Noriko
 PA Dai Ichi Kogyo Seiyaku Co Ltd, Japan
 SO Jpn. Kokai Tokkyo Koho, 30 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 05239797	A2	19930917	JP 1992-75314	19920225
AB	The title dispersants, giving stable emulsions even in hard water, comprise copolymers prepd. from monomers contg. (substituted) 1-propenylphenyl groups, (meth)acrylic acids, esters, and salts, and/or styrene-type monomers. A dispersant comprised a copolymer of RO(C2H4O)3(C3H6O)2C3H7 [R = 4-methyl-2-(1-propenyl)phenyl] 40, Me methacrylate 10, and Me acrylate 50 parts.				
IT	154295-86-0				
	RL: USES (Uses) (dispersants, for rosin sizes for paper)				
RN	154295-86-0 CAPLUS				
CN	2-Propenoic acid, 2-methyl-, polymer with 1,1-dimethylethyl 2-propenoate, ethenylbenzene, 2-ethylhexyl 2-methyl-2-propenoate and methyloxirane polymer with oxirane and tetrahydrofuran hydrogen phosphate (2:1; bis(4-eicosyl-2,6-di-1-propenylphenyl) ether (9CI) (CA INDEX NAME)				
CM	1				
CRN	1663-39-4				
CMF	C7 H12 O2				



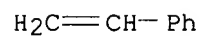
CM 2

CRN 688-84-6
 CMF C12 H22 O2

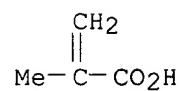


CM 3

CRN 100-42-5
 CMF C8 H8



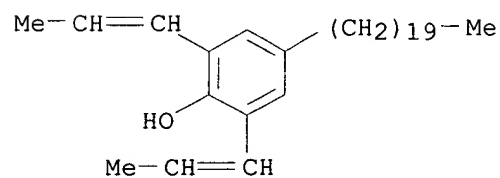
CM 4

CRN 79-41-4
CMF C4 H6 O2

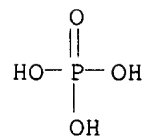
CM 5

CRN 153890-73-4
CMF C32 H54 O . (C4 H8 O . C3 H6 O . C2 H4 O)x . 1/2 H3 O4 P
CDES 8:GD,ESTER,ETHER

CM 6

CRN 165800-22-6
CMF C32 H54 O

CM 7

CRN 7664-38-2
CMF H3 O4 P

CM 8

CRN 31587-08-3
CMF (C4 H8 O . C3 H6 O . C2 H4 O)x
CCI PMS

CM 9

CRN 109-99-9

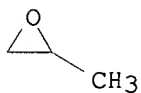
CMF C4 H8 O



CM 10

CRN 75-56-9

CMF C3 H6 O



CM 11

CRN 75-21-8

CMF C2 H4 O



L24 ANSWER 36 OF 46 CAPLUS COPYRIGHT 2000 ACS

AN 1992:216538 CAPLUS

DN 116:216538

TI Durable marine antifouling agents

IN Arimoto, Yasutaka; Hayashi, Seiichi; Rakutani, Kenji; Shioda, Yusuke

PA Katayama Chemical, Inc., Japan; Nippon Shokubai Kagaku Kogyo Co., Ltd.

SO Jpn. Kokai Tokkyo Koho, 10 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 03252462	A2	19911111	JP 1990-49917	19900228
	JP 2875328	B2	19990331		

AB The title agents having low toxicity and low water temp. dependence of release properties contain copolymers (mol. wt. 5000-500,000) from CH₂:CR₁CO₂-N+R₂R₃R₄ [R₁ = H, Me; R₂ = (un)satd. higher aliph. hydrocarbyl; R₃ = H, (un)satd. lower hydrocarbyl; R₄ = H, (un)satd. aliph. hydrocarbyl with or without amino substituent] 60-94, CH₂:CR₅CO₂XnR₆ (R₅ = H, Me; X = C2-4 oxyalkylene contg. >50% oxyethylene; n = 1-100; R₆ = H, C1-5 hydrocarbyl) 1-5, and CH₂:CR₇CO₂R₈ (R₇ = H, Me; R₈ = C1-20 hydrocarbyl) 5-39%. A typical agent used on polyethylene fish net contained 60.5:2.8:22.6:14.1 dodecylamine acrylate-2-hydroxyethyl acrylate-Me methacrylate-2-ethylhexyl acrylate copolymer (mol. wt. 125,000).

IT **140142-58-1**
 RL: USES (Uses)
 (marine antifouling agents, low-toxic, slow-release, for fish nets)

RN 140142-58-1 CAPLUS

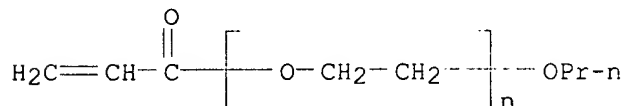
CN 2-Propenoic acid, 2-methyl-, 1,1-dimethylethyl ester, polymer with 2-ethylhexyl 2-propenoate, N-octadecyl-1-octadecanamine 2-propenoate and .alpha.-(1-oxo-2-propenyl)-.omega.-propoxypoly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

CM 1

CRN 92138-90-4

CMF (C2 H4 O)n C6 H10 O2

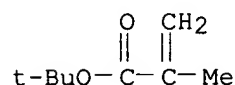
CCI PMS



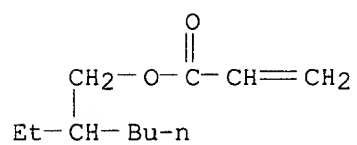
CM 2

CRN 585-07-9

CMF C8 H14 O2



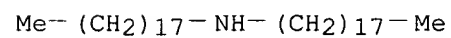
CM 3

CRN 103-11-7
CMF C11 H20 O2

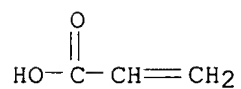
CM 4

CRN 140142-57-0
CMF C36 H75 N . C3 H4 O2

CM 5

CRN 112-99-2
CMF C36 H75 N

CM 6

CRN 79-10-7
CMF C3 H4 O2

L24 ANSWER 37 OF 46 CAPLUS COPYRIGHT 2000 ACS

AN 1992:196428 CAPLUS

DN 116:196428

TI Durable marine antifouling agents

IN Arimoto, Yasutaka; Hayashi, Seiichi; Rakutani, Kenji; Shioda, Yusuke

PA Katayama Chemical, Inc., Japan; Nippon Shokubai Kagaku Kogyo Co., Ltd.

SO Jpn. Kokai Tokkyo Koho, 10 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 03252463	A2	19911111	JP 1990-49918	19900228
	JP 2875329	B2	19990331		

AB The title agents having low toxicity and low water-temp. dependence of release properties contain copolymers (mol. wt. 5000-500,000) of unsatd. carboxylic acid monomer 10-80, CH₂:CR₁CO₂XnR₂ (R₁ = H, Me; X = C₂-4 oxyalkylene with oxyethylene content >50%; n = 1-100; R₂ = H, C₁-5 hydrocarbyl) 1-25, CH₂:CR₃CO₂R₄ (R₃ = H, Me; R₄ = C₁-20 hydrocarbyl) 5-89, and other vinyl monomer 0-20%, and 0.5-1.5 mol (to 1 carboxy group of the copolymer) R₅R₆R₇N [R₅ = satd. or (un)satd. higher aliph. hydrocarbyl; R₆ = H, (un)satd. lower hydrocarbyl; R₇ = H, (un)satd. hydrocarbyl with or without amino substituent]. A typical compn. used for polyethylene fish nets contained 25:5:40:30 acrylic acid-2-hydroxyethyl acrylate-Me methacrylate-2-ethylhexyl acrylate copolymer (mol. wt. 50,000) and 1.5 mol (to 1 carboxy group in the copolymer) N-octadecyltrimethylenediamine.

IT **140667-39-6**
 RL: USES (Uses)
 (marine antifouling agents, low-toxic, slow-release, for fish nets)

RN 140667-39-6 CAPLUS

CN 2-Propenoic acid, 2-methyl-, 1,1-dimethylethyl ester, polymer with .alpha.-(1-oxo-2-propenyl)-.omega.-propoxypoly(oxy-1,2-ethanediyl) and 2-propenoic acid, compd. with N-octadecyl-1-octadecanamine (9CI) (CA INDEX NAME)

CM 1

CRN 112-99-2

CMF C36 H75 N

Me-(CH₂)₁₇-NH-(CH₂)₁₇-Me

CM 2

CRN 140667-38-5

CMF (C8 H14 O2 . C3 H4 O2 . (C2 H4 O)n C6 H10 O2)x

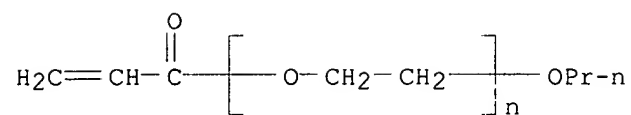
CCI PMS

CM 3

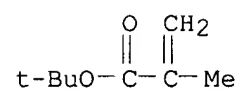
CRN 92138-90-4

CMF (C2 H4 O)n C6 H10 O2

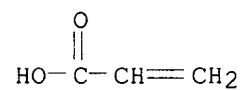
CCI PMS



CM 4

CRN 585-07-9
CMF C8 H14 O2

CM 5

CRN 79-10-7
CMF C3 H4 O2

L24 ANSWER 38 OF 46 CAPLUS COPYRIGHT 2000 ACS

AN 1992:61682 CAPLUS

DN 116:61682

TI Resin compositions for high-stretch coating materials

IN Kumada, Hajime; Shoji, Akio

PA Dainippon Ink and Chemicals, Inc., Japan

SO Jpn. Kokai Tokkyo Koho, 25 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 03097707	A2	19910423	JP 1989-235252	19890911

AB Coating materials contain vinyl polymers using adducts of lactones with esters of .alpha.,.beta.-ethylenic unsatd. carboxylic acid with natural or synthetic fatty acid glycidyl esters as the monomers, polyisocyanates, and nonpolar org. solvents. Thus, isophthalic acid 513, maleic anhydride 19, adipic acid 106, neopentyl glycol 391, trimethylolpropane 83, and pentaerythritol 30 parts were polymd., thinned to 60% nonvolatiles, mixed (34 parts) with xylene 686, a 508:116:114 Cardura E 10-fumaric acid-.epsilon.-caprolactone adduct 150, styrene 100, Bu methacrylate 200, tert-Bu methacrylate 175, iso-Bu acrylate 100, Placel FM-1 100, 2-hydroxyethyl methacrylate 203, and methacrylic acid 2 parts, polymd. in the presence of tert-Bu peroctoate to give a cocopolymer, mixed (100 parts) with Ti oxide 43, a thinner 30, and Burnock DN-950 40.7 parts, and coated on phosphated dull steel and polyurethanes for bumpers.

IT **138532-26-0**
 RL: TEM (Technical or engineered material use); USES (Uses)
 (coatings, crosslinking agents for, polyisocyanates as)

RN 138532-26-0 CAPLUS

CN tert-Decanoic acid, oxiranylmethyl ester, polymer with 1,1-dimethylethyl 2-methyl-2-propenoate, 2-ethylhexyl 2-propenoate, 2-hydroxyethyl 2-methyl-2-propenoate, 2-methyl-2-propenoic acid, 2-methylpropyl 2-methyl-2-propenoate and 2-oxepanone (9CI) (CA INDEX NAME)

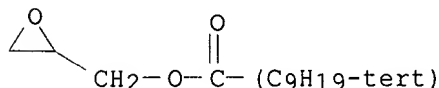
CM 1

CRN 71206-09-2

CMF C13 H24 O3

CCI IDS

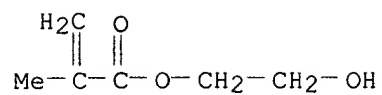
CDES 8:ID,TERT



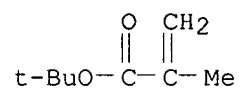
CM 2

CRN 868-77-9

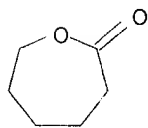
CMF C6 H10 O3



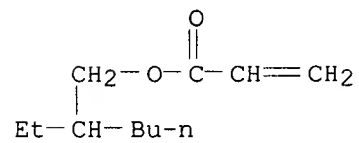
CM 3

CRN 585-07-9
CMF C8 H14 O2

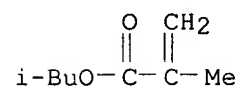
CM 4

CRN 502-44-3
CMF C6 H10 O2

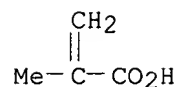
CM 5

CRN 103-11-7
CMF C11 H20 O2

CM 6

CRN 97-86-9
CMF C8 H14 O2

CM 7

CRN 79-41-4
CMF C4 H6 O2

IT 138532-19-1 138623-43-5

RL: TEM (Technical or engineered material use); USES (Uses)
(coatings, high-stretch)

RN 138532-19-1 CAPLUS

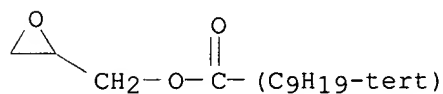
CN tert-Decanoic acid, oxiranylmethyl ester, polymer with Burnock DN 980,
1,1-dimethylethyl 2-methyl-2-propenoate, 2-ethylhexyl 2-propenoate,
2-hydroxyethyl 2-methyl-2-propenoate, 2-methyl-2-propenoic acid,
2-methylpropyl 2-methyl-2-propenoate and 2-oxepanone (9CI) (CA INDEX
NAME)

CM 1

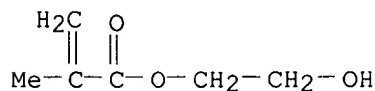
CRN 113148-38-2
CMF Unspecified
CCI MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 2

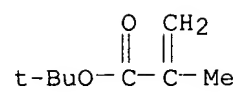
CRN 71206-09-2
CMF C13 H24 O3
CCI IDS
CDES 8:ID,TERT

CM 3

CRN 868-77-9
CMF C6 H10 O3

CM 4

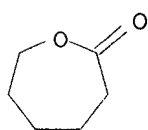
CRN 585-07-9
CMF C8 H14 O2



CM 5

CRN 502-44-3

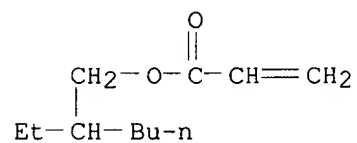
CMF C6 H10 O2



CM 6

CRN 103-11-7

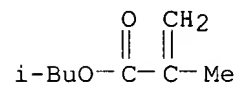
CMF C11 H20 O2



CM 7

CRN 97-86-9

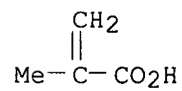
CMF C8 H14 O2



CM 8

CRN 79-41-4

CMF C4 H6 O2



RN 138623-43-5 CAPLUS

CN 2-Butenedioic acid (2E)-, polymer with Acryester SL, Desmodur H,
1,1-dimethylethyl 2-methyl-2-propenoate, ethenylbenzene, 2-methylpropyl
2-methyl-2-propenoate, 1,12-octadecanediol, 2-oxepanone and

oxiranylmethyl

tert-decanoate (9CI) (CA INDEX NAME)

CM 1

CRN 105863-97-6

CMF Unspecified

CCI MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

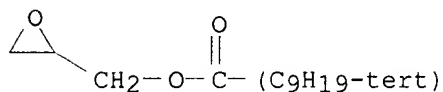
CM 2

CRN 71206-09-2

CMF C13 H24 O3

CCI IDS

CDES 8:ID,TERT



CM 3

CRN 52276-54-7

CMF Unspecified

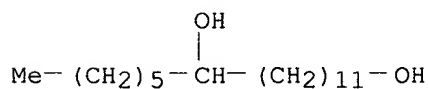
CCI MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 4

CRN 2726-73-0

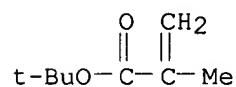
CMF C18 H38 O2



CM 5

CRN 585-07-9

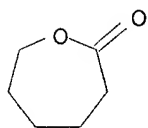
CMF C8 H14 O2



CM 6

CRN 502-44-3

CMF C6 H10 O2



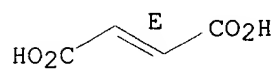
CM 7

CRN 110-17-8

CMF C4 H4 O4

CDES 2:E

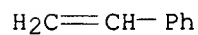
Double bond geometry as shown.



CM 8

CRN 100-42-5

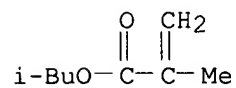
CMF C8 H8



CM 9

CRN 97-86-9

CMF C8 H14 O2



L24 ANSWER 39 OF 46 CAPLUS COPYRIGHT 2000 ACS

AN 1992:22982 CAPLUS

DN 116:22982

TI Thermosetting acrylic polymer-polyisocyanate coating compositions for automobile bodies

IN Hotta, Kazuhiko; Kido, Koichiro

PA Mitsubishi Rayon Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 9 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 03160076	A2	19910710	JP 1989-298451	19891116

AB The title compns. with excellent gloss and resistance to scratch, acid, gasoline, hot water, and weathering comprise (A) acrylic copolymers with OH value (OHV) 100-200, acid value (AV) 0.1-20, and glass transition

point

(Tg) from -50 to +50.degree. and prepd. from

CH2:CR1CO2(CH2)xCH(OH)(CH2)yH

(R1 = H, Me; x, y = 1-5) 100, CH2:CR2CO2R3 [R2 = H, Me; R3 = R4O[CO(CH2)10]kH, R5O(CH2CHR6O)jH, CH2CHR7O(CH2CH2CO2CH2CHR8O)mH; R4-5 = C1-8 alkylene; R6-8 = H, Me; l = 2-5; k = 1-7; j = 2-10; m = 1-3]

25-1000,

vinyl monomers contg. .gtoreq.1 of carboxy, sulfo, or phosphono group

0.25-200, and CH2:CR9CO2R10 (R9 = H, Me; R10 = C4-20 hydrocarbyl)

37.5-1200 parts and (B) polyisocyanates, at OH/NCO equiv ratio of

1/(0.5-1.5). Thus. 2-hydroxypropyl methacrylate 100, Placel FM 2 233, methacrylic acid 3.3, Bu methacrylate 133, Bu acrylate 30, and styrene

167

parts were polymd. in Solvesso 100 in the presence of AIBN and tert-butylperoxy iso-Pr carbonate to give a 60% acrylic polymer (Tg 14.degree., OHV 113 mgKOH/g, AV 3 mgKOH/g) soln. A compn. contg. the soln. 100, Coronate EH 25, Modaflow 0.09, Tinuvin 328 1.1, and Sanol LS 770 1.1 parts formed a clear coat with excellent resistance to gasoline, 10% aq. H2SO4, hot water (50.degree.), and weathering when applied wet-on-wet with an acrylic polymer base coat to a steel sheet precoated with an electrophoretic primer and an intermediate coat and baked at 140.degree..

IT 138105-21-2P

RL: PREP (Preparation)

(prepn. of, coatings, acid- and gasoline- and scratch-resistant, for automobiles)

RN 138105-21-2 CAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with Coronate EH, cyclohexyl 2-methyl-2-propenoate, 1,1-dimethylethyl 2-methyl-2-propenoate, dodecyl 2-methyl-2-propenoate, ethenylbenzene, 2-hydroxybutyl 2-methyl-2-propenoate, 2-hydroxyethyl 2-propenoate, 2-hydroxypropyl 2-propenoate and .alpha.-(2-methyl-1-oxo-2-propenyl)-.omega.-hydroxypoly[oxy(methyl-1,2-ethanediyl)] (9CI) (CA INDEX NAME)

CM 1

CRN 86472-86-8

CMF Unspecified

CCI MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

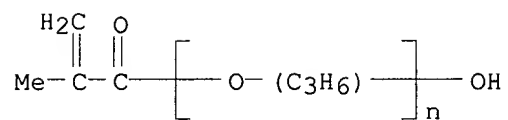
CM 2

CRN 39420-45-6

CMF (C3 H6 O)_n C4 H6 O2

CCI IDS, PMS

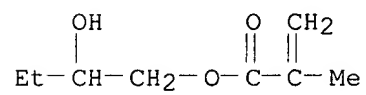
CDES 8:ID



CM 3

CRN 13159-51-8

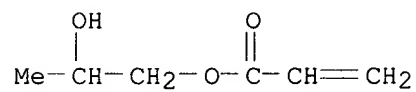
CMF C8 H14 O3



CM 4

CRN 999-61-1

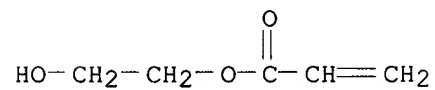
CMF C6 H10 O3



CM 5

CRN 818-61-1

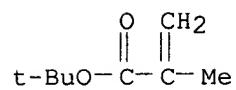
CMF C5 H8 O3



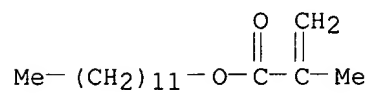
CM 6

CRN 585-07-9

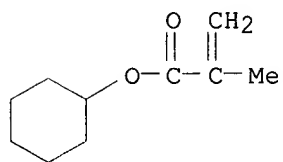
CMF C8 H14 O2



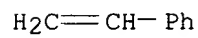
CM 7

CRN 142-90-5
CMF C16 H30 O2

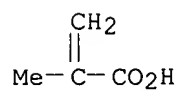
CM 8

CRN 101-43-9
CMF C10 H16 O2

CM 9

CRN 100-42-5
CMF C8 H8

CM 10

CRN 79-41-4
CMF C4 H6 O2

L24 ANSWER 40 OF 46 CAPLUS COPYRIGHT 2000 ACS

AN 1991:585452 CAPLUS

DN 115:185452

TI Coating formation for automobiles

IN Mita, Takashi; Kido, Koichiro

PA Mitsubishi Rayon Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 8 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 03077677	A2	19910403	JP 1989-214646	19890821
	JP 2896790	B2	19990531		

AB The weather-resistant coatings are formed by coating with color or metal-pigmented bases, wet-on-wet covering with clear tops contg. (A) mixts. of acrylic polymers having acid value (Va) 2-40 and aminoplasts having Va 50-150, and (B) mixts. contg. initiators 0.1-3.0, driers 0-1.0, unsatd. oligomers and/or vinyl compds. 65-90, and A[(CHR1CHOBQ)nR5]1 [A = active H-free carboxylic acid, alc., thiol, amide or secondary amine residue; B = active H-free acid, alc., thiol, and/or amide residue; Q = (CH2)mC(R2):CR3R4; R1-R4 = H, C1-5 alkyl; R5 = H, C1-10 alkyl; m = 0-1; n .gtoreq. 1; 1 = active H no. of A], and hardening. Thus, a steel panel was coated with a compn. contg. Al paste, U-Van 205E, and styrene (I)-methacrylic acid (II)-Me methacrylate-ethylene glycol-2-hydroxyethyl acrylate copolymer, set 3 min, topped with a compn. of 10 parts 30:70 U-Van 205E and I-II-Bu methacrylate-tert-Bu methacrylate-2-ethylhexyl methacrylate-2-hydroxyethyl methacrylate copolymer and 90 parts compn. of initiator 0.3, poly(alkyl glycidyl ether) ethylene glycol ether 10, and trimethylolpropane trimethacrylate-polyoxyethylene diacrylate copolymer 90%, and cured at 140.degree. for 2 min to give a coating with good smoothness and acid, water, and weather resistance.

IT 136535-74-5 136625-21-3

RL: USES (Uses)

(top coatings, in two-coat-one-bake, acid-, water-, and weather-resistant automotive coatings)

RN 136535-74-5 CAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with butyl 2-methyl-2-propenoate, 1,1-dimethylethyl 2-methyl-2-propenoate, ethenylbenzene, 2-ethylhexyl 2-methyl-2-propenoate, 1,6-hexanediyl di-2-propenoate, 2-hydroxyethyl 2-methyl-2-propenoate,

2-(hydroxymethyl)-2-[[1-(1-oxo-2-propenyl)oxy]methyl]-

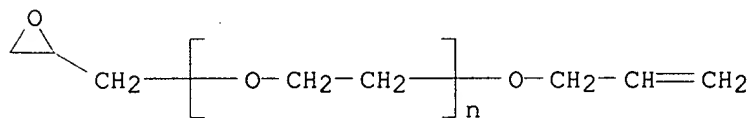
1,3-propanediyl di-2-propenoate and .alpha.-(oxiranylmethyl)-.omega.-(2-propenyloxy)poly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

CM 1

CRN 52683-23-5

CMF (C2 H4 O)n C6 H10 O2

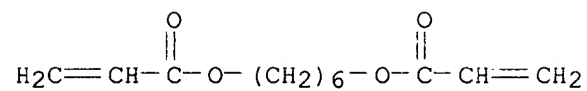
CCI PMS



CM 2

CRN 13048-33-4

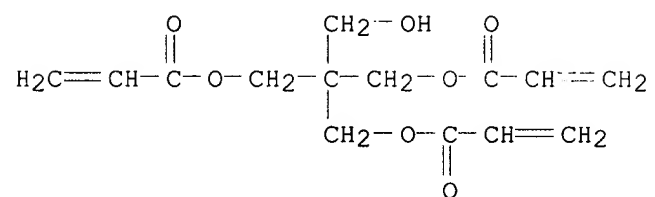
CMF C12 H18 O4

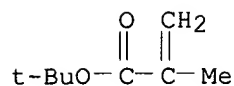


CM 3

CRN 3524-68-3

CMF C14 H18 O7

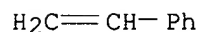




CM 7

CRN 100-42-5

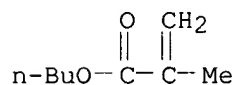
CMF C8 H8



CM 8

CRN 97-88-1

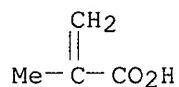
CMF C8 H14 O2



CM 9

CRN 79-41-4

CMF C4 H6 O2



RN 136625-21-3 CAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with butyl 2-methyl-2-propenoate, 1,1-dimethylethyl 2-methyl-2-propenoate, ethenylbenzene, 2-ethylhexyl 2-methyl-2-propenoate,

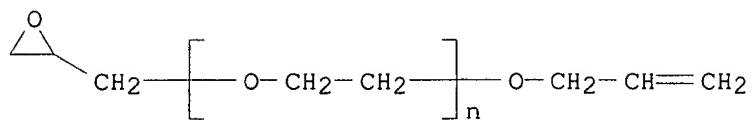
2-ethyl-2-[[[(2-methyl-1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl bis(2-methyl-2-propenoate), 2-hydroxyethyl 2-methyl-2-propenoate, .alpha.-(oxiranylmethyl)-.omega.-(2-propenyloxy)poly(oxy-1,2-ethanediyl) and .alpha.-(1-oxo-2-propenyl)-.omega.-[(1-oxo-2-propenyl)oxy]poly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

CM 1

CRN 52683-23-5

CMF (C2 H4 O)_n C6 H10 O2

CCI PMS

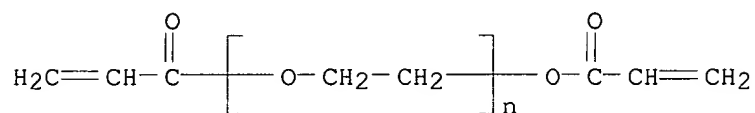


CM 2

CRN 26570-48-9

$$\text{CMF} \quad (\text{C}_2 \text{ H}_4 \text{ O})_n \text{ C}_6 \text{ H}_6 \text{ O}_3$$

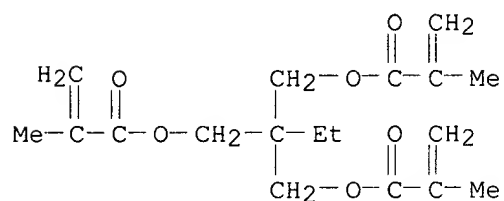
CCI PMS



CM 3

CRN 3290-92-4

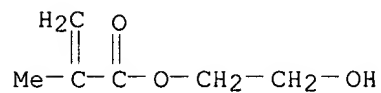
CMF C18 H26 O6



CM 4

CRN 868-77-9

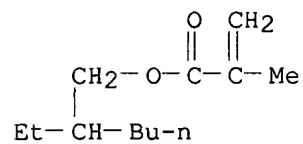
CMF C6 H10 O3



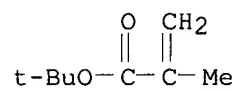
CM 5

CRN 688-84-6

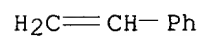
CMF C12 H22 O2



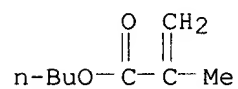
CM 6

CRN 585-07-9
CMF C8 H14 O2

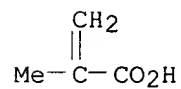
CM 7

CRN 100-42-5
CMF C8 H8

CM 8

CRN 97-88-1
CMF C8 H14 O2

CM 9

CRN 79-41-4
CMF C4 H6 O2

L24 ANSWER 41 OF 46 CAPLUS COPYRIGHT 2000 ACS

AN 1990:236951 CAPLUS

DN 112:236951

TI Acrylic colored base and clear top coating compositions

IN Hotta, Kazuhiko; Kido, Koichiro

PA Mitsubishi Rayon Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 10 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 01234473	A2	19890919	JP 1988-58431	19880314

AB The title coatings with good scratch and weather resistance are formed by coating with colorant (metal powder)-contg. base compns. comprising 40-90 parts polymers having OH value 20-100 mg KOH/g and acid value 0.5-35 mgKOH/g, prepd. from OH-contg. vinyl compds. 5-40, C1-4 alkyl (meth)acrylates 30-94.5, C1-8 alkyl maleates, fumarates, or itaconates 0.5-8, and other vinyl compds. 0-64.5%, crosslinked with 10-60 parts aminoplasts, and applying wet-on-wet with clear compns. comprising 60-95 parts polymer with OH no. 70-16, acid no. 0.5-20, and glass-transition temp. (Tg) -50 to 50.degree., prepd. from OH-contg. (meth)acrylates 10-60, CO2H-contg. vinyl compds. 0.3-5, and other monomers 35-89.7%, crosslinked with 5-40 parts polyisocyanates. Coating an aminoalkyd middle compn.-coated steel panel with a compn. of Al paste, U-Van 20SE, and 12:32:39.5:8:3:1.54 2-hydroxyethyl acrylate-Me methacrylate-Et acrylate-Bu methacrylate-monomethyl maleate-methacrylic acid (I)-glycidyl methacrylate copolymer, waiting 5 min, applying wet-on-wet with a compn. of Coronate EH, a surface adjusting agent, and 30:1:8:25:21:5 2-hydroxyethyl methacrylate (III)-.gamma.-caprolactone adduct-II-I-styrene-2-ethylhexyl acrylate copolymer (Tg 10.degree.), and baking at 80.degree. for 0.5 h gave a film with good gloss, and good H2SO3, gasoline, scratch, water, and weather resistance.

IT **127241-55-8**
 RL: USES (Uses)
 (topcoats, two-coat-one-bake, with metallic acrylic basecoats, for automobiles)

RN 127241-55-8 CAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with Coronate EH, 1,1-dimethylethyl 2-methyl-2-propenoate, ethenylbenzene, 2-ethylhexyl 2-methyl-2-propenoate, 2-hydroxyethyl 2-methyl-2-propenoate and .alpha.-(2-methyl-1-oxo-2-propenyl)-.omega.-hydroxypoly[oxy(methyl-1,2-ethanediyl)] (9CI) (CA INDEX NAME)

CM 1

CRN 86472-86-8
 CMF Unspecified
 CCI MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

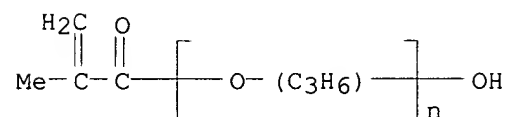
CM 2

CRN 39420-45-6

CMF (C3 H6 O)_n C4 H6 O2

CCI IDS, PMS

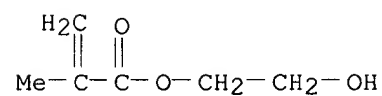
CDES 8:ID



CM 3

CRN 868-77-9

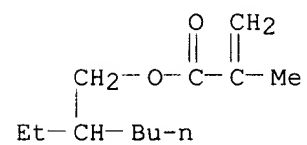
CMF C6 H10 O3



CM 4

CRN 688-84-6

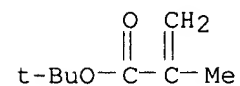
CMF C12 H22 O2



CM 5

CRN 585-07-9

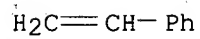
CMF C8 H14 O2



CM 6

CRN 100-42-5

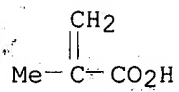
CMF C8 H8



CM 7

CRN 79-41-4

CMF C4 H6 O2



L24 ANSWER 42 OF 46 CAPLUS COPYRIGHT 2000 ACS

AN 1990:119556 CAPLUS

DN 112:119556

TI Preparation and properties of some water-soluble, comb-shaped, amphiphilic

polymers

AU Wesslen, Bengt; Wesslen, K. Bodil

CS Chem. Cent., Lund Inst. Sci. Technol., Lund, S-221 00, Swed.

SO J. Polym. Sci., Part A: Polym. Chem. (1989), 27(12), 3915-26

CODEN: JPACEC; ISSN: 0887-624X

DT Journal

LA English

AB Water-sol. comb-shaped polymers were prepd. through grafting of polyethylene glycol monomethyl ethers (I) onto acrylic and methacrylic ester copolymers by transesterification reactions. The grafting was alkali-catalyzed, and performed in refluxing PhMe soln. or in melt at 155.degree.. The grafting efficiency was on the order of 1 graft/10 monomer units. Epoxy groups in glycidyl methacrylate copolymers were

also

utilized for grafting. Polymers prepd. from I were cryst. with m.ps. 10-15.degree. lower than the I used. All polymers were surface active with CMC on the order of 1.5 g/L, and surface tensions of 38-45 dyn/cm. When used as emulsifiers the graft copolymers contg. bulky lipophilic ester groups (2-ethylhexyl, tert-butyl) gave oil-in-water and

water-in-oil

emulsions from xylene/water with higher stability than those contg. straight chain ester groups (Me, n-Bu, n-dodecyl).

IT 125770-26-5DP, Me ether

RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation) (prepn. and properties of)

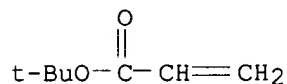
RN 125770-26-5 CAPLUS

CN 2-Propenoic acid, 1,1-dimethylethyl ester, polymer with 2-ethylhexyl 2-propenoate and oxirane, graft (9CI) (CA INDEX NAME)

CM 1

CRN 1663-39-4

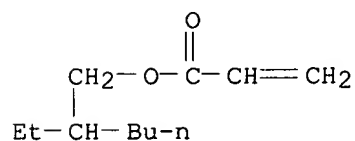
CMF C7 H12 O2



CM 2

CRN 103-11-7

CMF C11 H20 O2



WILLIS

09/382708

Page 171

CM 3

CRN 75-21-8

CMF C2 H4 O



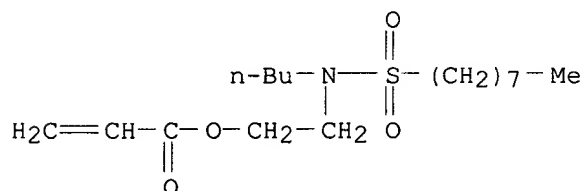
L24 ANSWER 43 OF 46 CAPLUS COPYRIGHT 2000 ACS
 AN 1989:605518 CAPLUS
 DN 111:205518
 TI Photosensitive lithographic plate compositions
 IN Sekiya, Toshiyuki; Misu, Hiroshi
 PA Fuji Photo Film Co., Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 11 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 01018142	A2	19890120	JP 1987-174437	19870713
	JP 06105350	B4	19941221		

AB The title compns. comprise a photosensitive diazo resin, polymeric binder,
 and copolymer of (A) (un)substituted C₄ alkyl, aryl, aralkyl (meth)acrylate, (B) C₃-20 fluoroaliph. (>30% F, last 3 C are sufficiently fluorinated) (meth)acrylates, and (C) polyoxyalkylene (meth)acrylates.
 IT 123525-91-7
 RL: USES (Uses)
 (photosensitive compns. contg., for lithog. plates)
 RN 123525-91-7 CAPLUS
 CN 2-Propenoic acid, 2-[butyl(octylsulfonyl)amino]ethyl ester, polymer with 1,1-dimethylethyl 2-propenoate and methyloxirane polymer with oxirane mono-2-propenoate (9CI) (CA INDEX NAME)

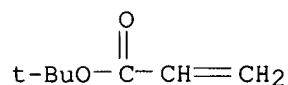
CM 1

CRN 82583-58-2
 CMF C17 H33 N O4 S



CM 2

CRN 1663-39-4
 CMF C7 H12 O2



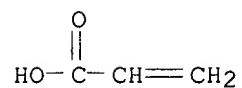
CM 3

CRN 9041-78-5

CMF (C3 H6 O . C2 H4 O)x . C3 H4 O2
CDES 8:GD,ESTER

CM 4

CRN 79-10-7
CMF C3 H4 O2

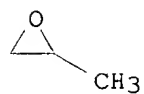


CM 5

CRN 9003-11-6
CMF (C3 H6 O . C2 H4 O)x
CCI PMS

CM 6

CRN 75-56-9
CMF C3 H6 O



CM 7

CRN 75-21-8
CMF C2 H4 O



L24 ANSWER 44 OF 46 CAPLUS COPYRIGHT 2000 ACS

AN 1989:576302 CAPLUS

DN 111:176302

TI Thermosetting tert-butyl methacrylate polymer compositions for clear coats

IN Hotta, Kazuhiko; Kido, Koichiro; Yamamoto, Shogo

PA Mitsubishi Rayon Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 9 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 01024871	A2	19890126	JP 1987-181193	19870722

AB The clear coats, useful for automobile bodies, comprise (A) acrylic polymers having OH value (Vh) 50-100 mg KOH/g and acid value (Va) 2-40 mg KOH/g and prepd. from tert-Bu methacrylate (I) 15-50, C.gto req. 8 alkyl (meth)acrylates 15-50, OH-contg. C>2 alkyl (meth)acrylates 10-60, CO2H-contg. vinyl compds. 0.3-10, and other vinyl compds. 0-59.7%, (B) nonaq. solvents contg. .gtoreq. 50% aliph. hydrocarbons, and (C) aminoplasts. A steel panel was treated with Zn3(PO4)2, coated with a cationic electrophoretic soln., then with an alkyd resin middle coat, sandblasted, coated with a base compn. of Alpaste 1700NL, U-Van 20SE-60, and a styrene (II)-methacrylic acid (III)-Me methacrylate-Et acrylate-2-hydroxyethyl acrylate copolymer, wet-on-wet coated with a clear compn. of U-Van 20SB, a surfactant, 4:1 Isopar H-Solvesso 100 mixt., and a 25:15:3:30:5:22 I-II-III-4-hydroxybutyl methacrylate-Bu acrylate-2-ethylhexyl methacrylate copolymer (Vh 117 mg KOH/g, Va 20 mg KOH/g), stored for 10 min, and baked at 140.degree. for 25 min to give a product showing good metallic color, brightness and gloss (98%).

IT **123374-55-0**
 RL: USES (Uses)
 (clear top coats, thermosetting, for automobile bodies)

RN 123374-55-0 CAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with 1,1-dimethylethyl 2-methyl-2-propenoate, dodecyl 2-methyl-2-propenoate, ethenylbenzene, 4-hydroxybutyl 2-propenoate and .alpha.-(2-methyl-1-oxo-2-propenyl)-.omega.-hydroxypoly[oxy(methyl-1,2-ethanediyl)] (9CI) (CA INDEX NAME)

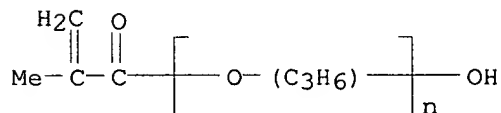
CM 1

CRN 39420-45-6

CMF (C3 H6 O)n C4 H6 O2

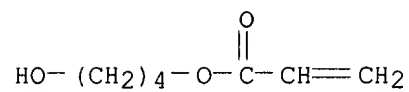
CCI IDS, PMS

CDES 8:ID



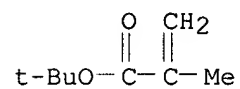
CM 2

CRN 2478-10-6
CMF C7 H12 O3



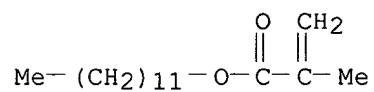
CM 3

CRN 585-07-9
CMF C8 H14 O2



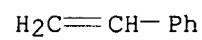
CM 4

CRN 142-90-5
CMF C16 H30 O2



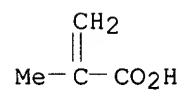
CM 5

CRN 100-42-5
CMF C8 H8



CM 6

CRN 79-41-4
CMF C4 H6 O2



L24 ANSWER 45 OF 46 CAPLUS COPYRIGHT 2000 ACS

AN 1979:493087 CAPLUS

DN 91:93087

TI Coating having a metallic finish

IN Ozawa, Hiroshi; Torii, Yoshinori; Okita, Yasuo; Kobayashi, Nobuki; Ishikawa, Koji

PA Mitsui Toatsu Chemicals, Inc., Japan

SO U.S., 7 pp.

CODEN: USXXAM

DT Patent

LA English

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 4139672	A	19790213	US 1976-750414	19761214
	JP 52074631	A2	19770622	JP 1975-150499	19751219
	JP 58014266	B4	19830318		
	AU 7620602	A1	19780622	AU 1976-20602	19761216
	AU 500684	B2	19790531		
	GB 1527310	A	19781004	GB 1976-52556	19761216
	NL 7614031	A	19770621	NL 1976-14031	19761217
	NL 171130	B	19820916		
	NL 171130	C	19830216		
	FR 2335270	A1	19770715	FR 1976-38055	19761217
	FR 2335270	B1	19821008		
	CA 1076064	A1	19800422	CA 1976-268102	19761217

PRAI JP 1975-150499 19751219

AB The title coatings having improved repairability with solvent-type air-drying repairing paints, durability, and vividness and needing less energy to harden are manufd. by spraying a water-thinnable compn. based on

Al-flake pigments and an acrylic polymer contg. .gtoreq.0.1 equiv/kg solid

carboxyl or carboxylate groups on an electrodeposited primer on a substrate, followed by electrostaticall applying a compn. based on a dicarboxylic acid and an acrylate copolymer contg. glycidyl or .beta.-Me glycidyl groups. Thus, an aq. compn. contg. a maleated polybutadiene-type

paint and dimethylethanolamine was electrodeposited on a steel sheet to give a primer with dry thickness 15-17 .mu.. The primed sheet was sprayed

with a compn. contg. 40% solids 8:30:15:30:17 acrylic acid-Bu acrylate-hydroxyethyl methacrylate-Me methacrylate-styrene copolymer (I) [55993-98-1] (no.-av.-mol. wt. 25000, carboxyl group content 1.1 equiv/kg solids) aq. emulsion 150, 40% solids aq. 8:30:15:30:17 I Et3N salt [55993-99-2] (no.-av.-mol. wt. 25000, carboxyl group content 1.1 equiv/kg solids, and Et3N content 0.8 equiv/equiv carboxyl group) soln. 50, methylated methylol melamine resin 20, and 50% butyl Cellosolve slurry of scale-like Al powder 20 parts and baked 20 min at 170.degree. to give an intermediate coating with thickness 20 .mu. and contg. 80% resin having no.- av. mol. wt. .gtoreq.3000 and contg. .gtoreq.0.1 equiv carboxyl groups/kg solids. The intermediate coating was electrostatically sprayed with a powd. compn. contg. 5:20:5:40:30 Bu acrylate-glycidyl methacrylate-hydroxyethyl acrylate-Me methacrylate-styrene copolymer [59198-64-0] 90, sebacic acid [111-20-6] crosslinking agent 10, and Resimix L coated surface-smoothing agent 1 part and baked 20 min at 170.degree. to give a coated sheet that exhibited better vividness, appearance, repairability by a solvent-based thermoplastic acrylic resin-scaley aluminum powder paint, adhesion after a 340-h immersion in

40.degree. water, and durability after being pelleted by silica sand falling from a height of 2 ms, sprayed 240 h by a salt soln., and exposed 1000 h in a sunshine weatherometer than a similar coated sheet not having the electrostatically applied top coating.

IT 64541-63-5

RL: USES (Uses)

(coating compns. contg., for aluminum paints)

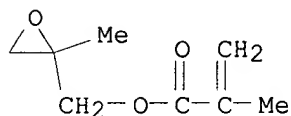
RN 64541-63-5 CAPLUS

CN 2-Propenoic acid, 2-methyl-, 1,1-dimethylethyl ester, polymer with 2-ethylhexyl 2-methyl-2-propenoate, methyl 2-methyl-2-propenoate, (2-methyloxiranyl)methyl 2-methyl-2-propenoate and oxiranylmethyl 2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 41768-20-1

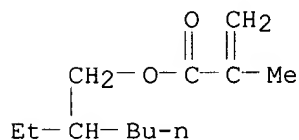
CMF C8 H12 O3



CM 2

CRN 688-84-6

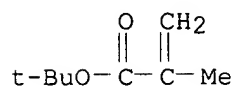
CMF C12 H22 O2



CM 3

CRN 585-07-9

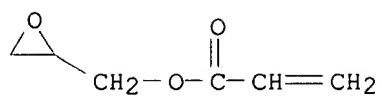
CMF C8 H14 O2



CM 4

CRN 106-90-1

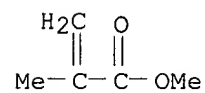
CMF C6 H8 O3



CM 5

CRN 80-62-6

CMF C5 H8 O2



L24 ANSWER 46 OF 46 CAPLUS COPYRIGHT 2000 ACS
 AN 1977:586161 CAPLUS
 DN 87:186161
 TI Formation of a coating with a metallic finish
 IN Ozawa, Hiroshi; Torii, Yoshinori; Okita, Yasuo; Kobayashi, Nobuki;
 Ishikawa, Koji
 PA Mitsui Toatsu Chemicals, Inc., Japan
 SO Ger. Offen., 30 pp.
 CODEN: GWXXBX
 DT Patent
 LA German
 FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	DE 2657284	A1	19770630	DE 1976-2657284	19761217
	DE 2657284	C2	19840913		
	JP 52074631	A2	19770622	JP 1975-150499	19751219
	JP 58014266	B4	19830318		
	AU 7620602	A1	19780622	AU 1976-20602	19761216
	AU 500684	B2	19790531		
	GB 1527310	A	19781004	GB 1976-52556	19761216
	NL 7614031	A	19770621	NL 1976-14031	19761217
	NL 171130	B	19820916		
	NL 171130	C	19830216		
	FR 2335270	A1	19770715	FR 1976-38055	19761217
	FR 2335270	B1	19821008		
	CA 1076064	A1	19800422	CA 1976-268102	19761217

PRAI JP 1975-150499 19751219

AB Metallic finish coatings with improved processability and properties comprised 3 layers, in which the primer layer was based on electrodeposited unpigmented maleated polybutadiene (I) [9003-17-2], the intermediate layer was based on sprayed suspensions of Al flake-pigmented acrylic copolymer compn., and the top layer was based on electrostatically-deposited unpigmented acrylate copolymer powder compns. Thus, phosphated steel plate was primed by electrocoating from an aq. soln. contg. maleated I and dimethylethanolamine to give a 15-17 .mu. primer coating after drying. A mixt. contg. 40% solids aq. 8:30:15:30:17 acrylic acid-Bu acrylate-hydroxyethyl methacrylate-Me

methacrylate-styrene

copolymer (II) Et3N salt [55993-99-2] (no. av. mol. wt. 4200) 50, 40% solids aq. II [55993-98-1] emulsion (no. av. mol. wt. 25,000, av.

particle

size 0.12.mu., CO2H content 1.1 equivs./100 g resin) 150, Cymel 350 20, and 50% Bu cellusolve suspension of leaf-type Al powder 20 parts was sprayed on the primed steel plate and baked 20 min at 170.degree. to give a 20 .mu. coating. A mixt. contg. 5:20:5:40:30 Bu

acrylate-glycidyl

methacrylate-hydroxyethyl acrylate-methyl methacrylate-styrene copolymer [59198-64-0] 90, sebacic acid 10, and Resimix L as polishing agent 1 part was extruded, cooled and pulverized to give a powder with particle size 74.mu., which was electrostatically sprayed to a thickness of 30-5.mu. on the above doubly coated steel plate and baked 20 min at 170.degree. to give a coating with better appearance and phys. properties than Al flake-pigmented single-layer coatings prep'd. from the above described acrylic polymers.

IT 64541-63-5

RL: USES (Uses)

(coatings contg., 3-layer, metallic finish)

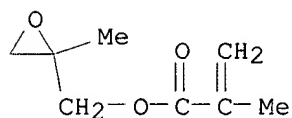
RN 64541-63-5 CAPLUS

CN 2-Propenoic acid, 2-methyl-, 1,1-dimethylethyl ester, polymer with 2-ethylhexyl 2-methyl-2-propenoate, methyl 2-methyl-2-propenoate, (2-methyloxiranyl)methyl 2-methyl-2-propenoate and oxiranylmethyl 2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 41768-20-1

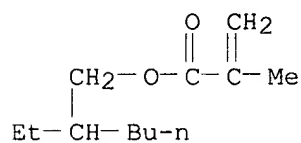
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CM 2

CRN 688-84-6

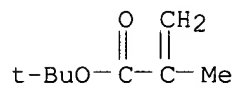
CMF C12 H22 O2



CM 3

CRN 585-07-9

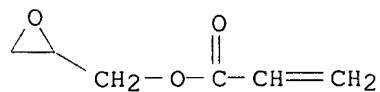
CMF C8 H14 O2



CM 4

CRN 106-90-1

CMF C6 H8 O3



CM 5

CRN 80-62-6

CMF C5 H8 O2

